AD-A153 966 COMMUNICATION FORCE STRUCTURE STUDY(U) MARINE CORPS DEVELOPMENT AND EDUCATION COMMAND QUANTICO VA C C BRYANT 31 MAR 85

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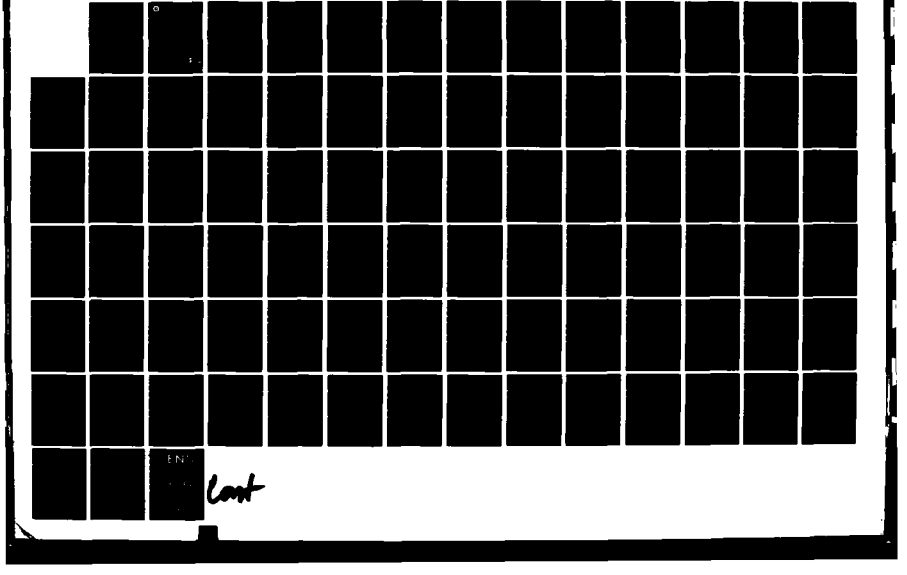

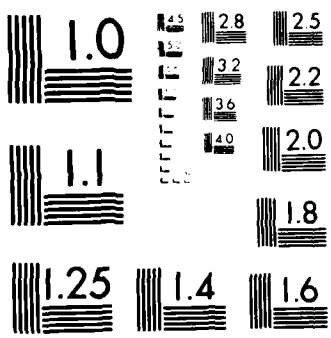

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COMMUNICATION FORCE STRUCTURE STUDY

LIEUTENANT COLONEL C. C. BRYANT
C4 SYSTEMS DIVISION
TELECOMMUNICATIONS BRANCH
HEADQUARTERS, U.S. MARINE CORPS
WASHINGTON, D.C. 20380-0001

MARCH 31, 1985

FINAL REPORT

UNLIMITED DISTRIBUTION

COMMANDANT OF THE MARINE CORPS
CODE RD
HEADQUARTERS, U.S. MARINE CORPS
WASHINGTON, D.C. 20380-0001

DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, D.C 20380

IN REPLY REFER TO
RDS/CCTR-63
SCN 75-82-02

22 JAN 19

From: Commandant of the Marine Corps

Subj: COMMUNICATION FORCE STRUCTURE STUDY

1. The study objectives were to examine and, if necessary, redefine the mission and structure for the communication battalions, division, and force service support group communications companies, and the wing communication squadrons necessary to meet Marine Corps requirements for the time period 1984-1993.

2. The study objectives relating to communication support for MAGTF headquarters, considered our most critical deficiency today, have been met. The study provides a foundation for further mission and structure evaluation to analyze the internal communication requirements for the subordinate elements of the MAF. The final report is recommended for distribution.

3. The recommendations of the study are deferred.

4. A copy of this letter will be affixed inside the front cover of each copy of the subject study report prior to its distribution.

Distribution:
DTIC (2)
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CG MCDEC (2)
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Communiations Battalion

20. ABSTRACT *(Continue on reverse side if necessary and identify by block number)*

The Marine Corps is inadequately prepared to support present doctrine. Existing deficiencies severly handicap Marine communicators in their attempt to provide tactical communications support under combat conditions. The present structure of the communications battalion is organized to support a (MAF) Hqds and provide communication support to other units of the MAF requiring assistance. This study identified the structure, mission statements, and major items of equipment required to support the headquarters of multiple (MAGTF) deployments.

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Assistant Chief of Staff, Doctrine
Marine Corps Development and Education Command
Quantico, Virginia 22134

COMMUNICATION

FORCE STRUCTURE

STUDY

Project Team
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Lieutenant Colonel Robert Painter
Lieutenant Colonel Doug Smith
Major William M. Moore
Major Doris A. Bell

Final Report
31 March 1983

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EXECUTIVE SUMMARY

The Marine Corps is inadequately prepared to support present doctrine. Existing deficiencies severely handicap Marine communicators in their attempt to provide tactical communication support under combat conditions. "Unless these shortfalls are recognized at a level that has the ability to initiate remedial measures, our ability to command and control tactical forces is at risk and the possibility of mission failure will remain unacceptably high."[1]

The present structure of the communication battalion is organized to support a MAF headquarters and provide communication support to other units of the MAF requiring assistance. The requirement for communication battalion to provide communication support for simultaneous MAGTF deployments is currently being met through ad hoc utilization of assets. Initial deployments receive overly adequate support which severely limit the communication battalion's ability to support subsequent deployments. Combat ready command, control and communications cannot be formed on the pier or the apron.

The Commandant's recent guidance and MAF/MAB obligations of diverse deployments present a greater sense of urgency to adequately support multiple MAGTF deployments.[2] The guidance from the Commandant, based on force capabilities, calls for the MAF communication assets to support one MAF, two MABs, or a MAF and a MAB headquarters simultaneously. After action reports continually indicate insufficient assets for simultaneous support of MAGTFs of brigade size or larger. Our present system supports a brigade with more than half of the communication battalion's assets. If we train, organize, and subsequently deploy as multi-MAGTFs, an increase in communication assets or a reduction in support is necessary. The scope of this study includes MAGTF headquarters and their links with senior and subordinate commands. Communications internal to subordinate MAGTF elements such as Air Combat, Ground Combat, and FSSG are not the purpose of this study. We intend in this study to identify the structure, mission statements, and major items of equipment required to support the headquarters of multiple MAGTF deployments. We will address significant issues on which decisions must be made in order to provide truly responsive combat communication units for simultaneous MAGTF deployments.

Data available for the study of multiple MAGTF requirements is not readily quantifiable. Analysis to determine a suitable structure for support of expanded mission requirements is more appropriately done through the collective judgement of senior communicators and commanders, as well as through review of after action reports.

Option IV emerged from the analysis as the one best able to support two MAGTF headquarters deployed at the same time. Reorganization of current assets according to this plan will provide two separate communication elements equally capable of supporting a MAB headquarters. With augmentation, either or both could support a MAF headquarters. Preplanning the employment of assets allows full support capability to be retained for a second MAGTF while the first is already being adequately supported. Use of this option will require no increase in the number of headquarters needed, and only a slight increase in numbers of personnel. The majority of the communication resources needed to support multiple MAGTF deployments are currently within MAF communication organizations. Bold shifts of selected personnel could reduce additional manpower requirements to a minimal single MAF structure increase of less than twenty Marines.

---

[1]FINLON, A. P., Colonel, undated ltr 5 10/APF/vs over 3000 from Director, COS, to Director, Education Center, MCDEC, Quantico, VA.

[2]CMC ltr 23 June 1982 POC-10 from CMC to CG FMF Atlantic, Pacific and CG MCDEC; Subj: MAGTF headquarters.

Current communication battalion	42/720	(page 12)
Proposed communication battalion	48/871	(page 3)
Shortfall	6/151	(page 4)
Feasible offsets	0/140	(page 5)
Net Requirement	6/11	

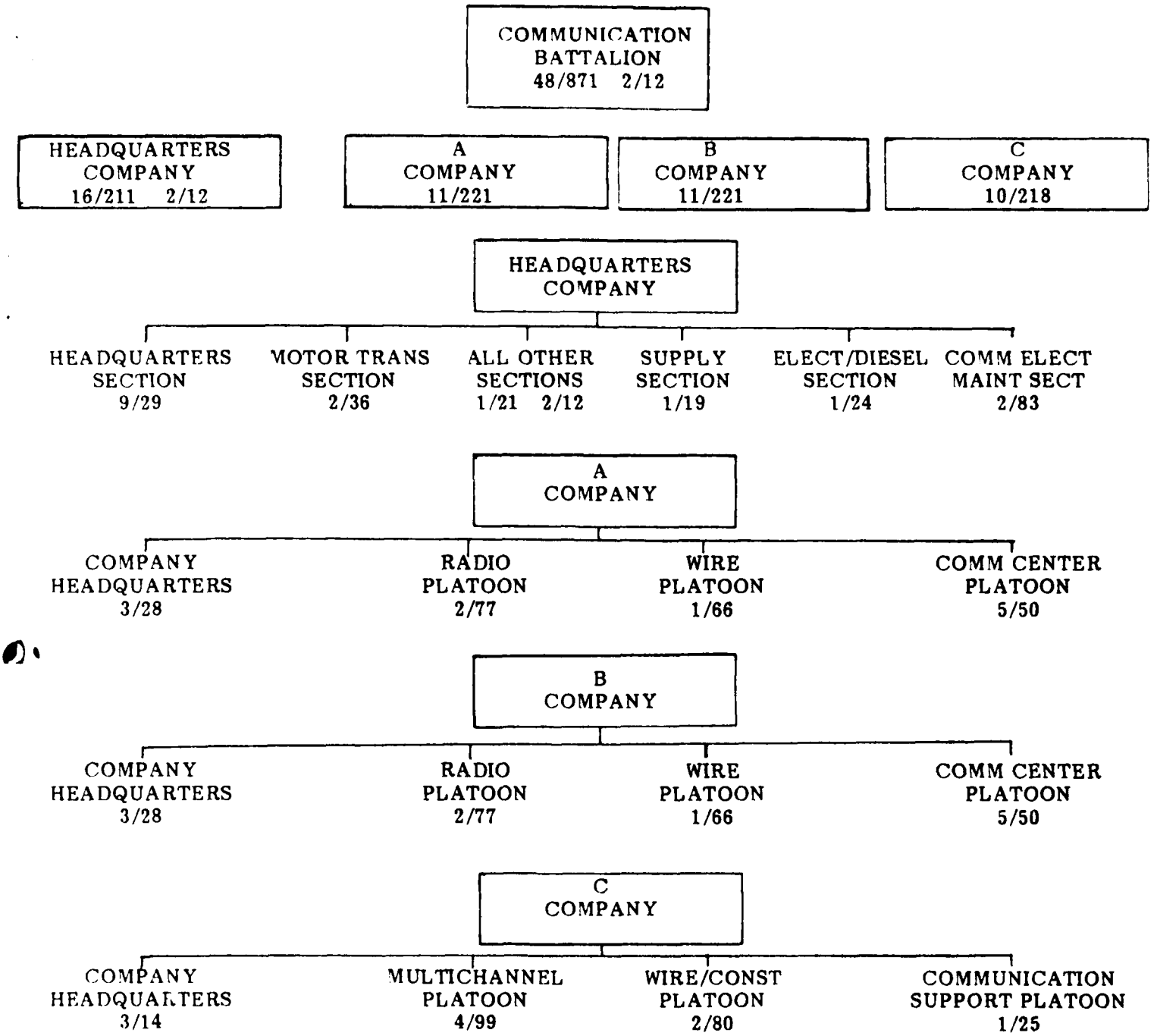
The recommended implementation plan calls for the reorganization to take place first in Eighth Communication Battalion, followed in tandem by Ninth and Seventh Communication Battalions respectively. Sixth Communication Battalion reorganization could be started upon approval of this option. Sixth Communication Battalion, given its mission of augmentation and its lack of ability to respond quickly to T/O changes, is expected to need more time to reorganize than the other three battalions. The sequence of events would be as follows:

- From current communication battalion assets form A company and reorganize Headquarters and C company elements.

- Form B company out of the remainder of Communication Support Company and reductions identified within the FMF structure, (i.e. division, wing, FSSG). Two thirds of those personnel to be drawn from the FMF structure are not presently performing in the identified MOS.

Careful distinction must be made between this study and another communication reorganization study currently in process by the Second Marine Air Wing CEO's office. The Second MAW study addresses communication resources internal to the wing only and is primarily concerned with multi-airbase communication support. The study which is the subject of this report addresses communication support for MAGTF headquarters only. This study does not address the support of multi-MAGTFs by wing, division, and FSSG assets other than identifying possible compensatory reductions.

OPTION IV


COMMUNICATION BATTALION
48/871 2/12
HEADQUARTERS COMPANY
16/211 2/12
A COMPANY
11/221
B COMPANY
11/221
C COMPANY
10/218
HEADQUARTERS COMPANY
HEADQUARTERS SECTION
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ALL OTHER SECTIONS
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B COMPANY
COMPANY HEADQUARTERS
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RADIO PLATOON
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WIRE PLATOON
1/66
COMM CENTER PLATOON
5/50
C COMPANY
COMPANY HEADQUARTERS
3/14
MULTICHANNEL PLATOON
4/99
WIRE/CONST PLATOON
2/80
COMMUNICATION SUPPORT PLATOON
1/25

COMMUNICATION BATTALION

STRENGTH

CURRENT

42/720

HEADQUARTERS COMPANY	COMMUNICATION COMPANY	COMM SUPPORT COMPANY	LONG LINES COMPANY
14/188	12/191	7/142	9/199

PROPOSED

48/871

HEADQUARTERS COMPANY	A COMPANY	B COMPANY	C COMPANY
16/211	11/221	11/221	10/218

PERSONNEL SHORTFALL

(CURRENT vs PROPOSED)

6/151

PERSONNEL REALLOCATION

UNIT		AVAILABLE	MOS	REMARKS
INFANTRY BATTALION	1 (ea)	/ 9	2818	Assigned as teletype associated personnel. Unit will not receive TTY equipment in the future.
	1 (ea)	/ 9	2549	
	3 (ea)	/27	2542	
INFANTRY REGIMENT	2 (ea)	/ 3	2818	Unit will only be required to maintain TTY to higher or adjacent units. (5 AN/UGC-74's each regiment.)
	1 (ea)	/ 0	2549	
	12 (ea)	/21	2542	
COMBAT ENGINEER BATTALION	7	/ 3	2542	Will receive 2 AN/UGC-74 Four man team is adequate.
RECON BATTALION	1	/ 1	2818	(Same as above.)
	4	/ 0	2542	
LANDING SUPPORT BATTALION	1	/ 1	2818	(Same as above.)
	2	/ 2	2549	
	12	/ 8	2542	
TRACKED VEHICLES OR AMPHIBIOUS ASSAULT BN	1	/ 1	2818	Unit will not receive UGC-74
	6	/ 6	2542	
TANK BATTALION	1	/ 1	2818	(Same as above.)
	5	/ 5	2542	
TOTAL (Teletype MOS)		/97		Available to staff B Company.
COMMUNICATION CENTER CRYPTOGRAPHER WING; DIVISION; FSSG		12	2549/ 2542	With all encryption being accomplished by on line automatic equipment, the requirement for a separate cryptographic section no longer exists.
AN/TSC-15 OPERATORS				
WING COMM SQD		16	2534	Equipment will be discontinued without replacement. Multichannel link terminals between MAGTF headquarters and its elements will be provided and manned by Marines from the MAGTF communication element.
DIV COMM CO		15	2534	
TOTAL PERSONNEL		140		

Reference Source: T/O Listing Dated 19 October 1982

OBJECTIVES

The purpose of the study of communication structures in the Marine Amphibious Force (MAF) is to examine, and if necessary, redefine the mission and structure for the communication battalion, division and force service support group communication companies, and the wing communication squadron necessary to meet Marine Corps requirements for the time period 1984-1993.

These are the specific objectives of the study.

A. Examine the mission of the following units and evaluate methods of employment (1984-1993).

(1) Communication battalion

(2) Division communication company

(3) Wing communication squadron

(4) FSSG communication company

B. Determine the capability of MAF communication units to support ground, air and combat service support units of four MAUs or two MABs and residual division, wing and FSSG units simultaneously.

C. Determine the capability of MAF communication units to support the ground combat, aviation combat and combat service support elements of a MAF.

D. Determine deficiencies in MAF communication units in meeting mission requirements.

E. Develop alternative MAF communication structures, required major end items of equipment and recommend the preferred alternative.

F. Recommend MAF communication structure for active and reserve MAF communication units.

G. Develop an implementation sequence for the recommended structure.

H. Identify necessary changes in the training requirements to support the recommendation.

I. Develop the organizational structures and the unit mission statements for the recommended MAF communication units.

FACTORS AND FACTS BEARING ON THE PROBLEM

Structures within the major communication organizations of the Marine Corps are inadequate to successfully accomplish multi-MAGTF missions. Present tactical structures established over a decade ago within communication squadrons, communication battalions, and division and FSSG communication companies are incapable of meeting multi-MAGTF mission requirements for either the present or the projected time period 1984-1993. Changes in deployment concepts for Marine Air Ground Task Forces combined with introduction of new equipment such as satellites, new generations of cryptographics and radios, and data communications terminals have made current mission statements, T/Os and T/Es obsolescent. The common practice of task organizing for every assigned mission has proved unsatisfactory in a unit's ability to support either an individually deployed MAGTF headquarters or a simultaneous deployment of two or more MAGTF headquarters of any size. Without the restraint of a previously planned allowance and configuration, the first of two MABs to be deployed will deplete ground communication resources to the extent that a second MAB headquarters cannot be adequately supported. In the air element of a MAB, sufficient personnel and equipment do not currently exist to support the ACE's of two MABs deployed simultaneously and geographically separated for an extended period of time. A current Second MAW study covers Wing Communications in detail (CG 2nd MAW ltr 6:KAS:CEO:VLO; 2000 dtd 27 July 1982).

Training with imaginary opposition on exercises of limited duration has created some situations that are unrealistic:

(1) Staff officers are not forced to rely on communication resources in an exercise as they would in an actual engagement. Without the reality of need, command attention to communication activities is reduced. Supply activities especially fail to task the communication center with messages. There is no need for realistic resupply activities on a short exercise.

(2) Without threat of enemy discovery, transmission length is of no consequence. Staff officers enjoy the luxury of protected peacetime type communications in both frequency and volume. Procedure established and habits developed in an invalid training situation do little to prepare for the limitations on communications inherent in wartime conditions.

(3) Heavy reliance on satellite communications in a training environment ignores the possibility that satellites will be an early target in war. Too little emphasis is given to alternative means of DCS entry. There is a widespread assumption that units will enter all combat engagements fully manned and equipped. No allowance is made for casualties of personnel and equipment during either engagement in combat or transport to the combat area.

The capabilities of current MAF communication structures have been strained or surpassed by the expanding range of MAGTF employment options. When air and ground combat elements are formed as part of the MAGTF the residual headquarters of wings and divisions continue to demand communications. Resources are spread thinner to meet these demands. The same liability is forced onto communication assets if a MAF deploys one or more MAGTFs. Assume a Marine Amphibious Force operating out of one headquarters location. Now assume that Force must support more than one MAB. All of the communication support previously provided to the MAF must be maintained, while almost duplicate service must be provided to the deployed MAB. When forces are spread thinner, communication requirements only grow. They never recede.

There currently exists no singular course of action to be taken by communicators in the event that a Marine Amphibious Unit (MAU) or Marine Amphibious Brigade (MAB) headquarters is subsumed by a higher headquarters, nor is there any doctrinal support or direction for the opposite evolution.

ASSUMPTIONS

Prior to the start of the study we formed basic assumptions about Marine Corps doctrine regarding the Marine Air Ground Task Force (MAGTF):

1. Landing Force Integrated Communication System (LFICS) architecture provides general guidance for the planned availability of tactical communication equipment.

2. Headquarters elements of the Marine Amphibious Unit (MAU), Marine Amphibious Brigade (MAB) and Marine Amphibious Force (MAF) plus headquarters for the division, wing and force service support group (FSSG) as contained in the Programmed Objectives Memorandum (POM) for the 1984-1988 period will remain unchanged.

3. Communication equipment currently being developed and scheduled for implementation through the midrange will become operational as programmed.

4. From any MAF up to four MAU's or two MAB's could be simultaneously deployed at any time during the midrange period. Should two MAB sized task forces be deployed simultaneously, one would be an MPS brigade.

5. Missions defined for MAF, MAB, and MAU headquarters, and for wing, division, and FSSG will remain the same.

6. A MAU headquarters will remain aboard ship, and the MAU commander ashore will remain within courier range of the ship. This arrangement precludes the need for Defense Communications System (DCS) entry established ashore for a MAU. When particular circumstances cause a MAU to be ashore for an extended period, such as the current deployment in Lebanon, DCS entry will be provided by communication battalion. The number of communication personnel assigned to support a MAU headquarters varies from less than five to more than thirty depending on the individual commander's perception of need.

7. After elements of divisions and wings are assigned to MAGTFs, their residual headquarters will continue to demand headquarters type communication support.

8. If MAF forces are subsequently divided and deployed separately, the MAF headquarters will relinquish none of its commnication support.

DISCUSSION

The scope of this study includes MAGTF headquarters and their links with senior and subordinate commands. Communications internal to subordinate MAGTF elements are not the purpose of this study.

The present structure of the communication battalion is organized to support a MAF headquarters and provide communication support to other units of the MAF requiring assistance. The requirement for one communication battalion to provide communication support for simultaneous MAGTF deployments has surfaced only recently.

The Commandant's recent guidance and MAF/MAB obligations of diverse deployments present a greater sense of urgency to adequately support multiple MAGTF deployments. After action reports continually indicate insufficient assets for simultaneous support of MAGTFs of brigade size or larger.

Our present system supports a brigade with more than half of the communication battalion's assets. If we train, organize and subsequently deploy as multi-MAGTFs, an increase in communication assets or a reduction in support is necessary.

The guidance from the Commandant, based on force capabilities, calls for a MAF communication assets to support one MAF, two MABs or a MAF and a MAB headquarters simultaneously. To do that requires more personnel and equipment as well as a structure change. We intend in this study to identify the structure, mission statements, and major items of equipment required to support the headquarters of multiple MAGTF deployments. The majority of these resources are currently within MAF communication organizations. We will address significant issues on which decisions must be made in order to provide truly responsive communication units for simultaneous MAGTF deployments.

The Defense Technical Information Center (DTIC) was the primary source of literature search. Working with an operations research specialist we queried the DTIC title and subject listings. The purpose of the literature search was to discover whether and to what depth other agencies had addressed the same problem. Most of the documents that were acquired from DTIC were very technical and highly oriented toward systems analysis. Of those which were decipherable by a layperson none addressed the specific topic of structuring a communication unit.

A search of the literature provided useful background material but not enough relevant data for modeling. Primary sources of information were (1) MarCor Scenarios for requirements and (2) interviews with commands of all levels for operational expertise. No centralized source identifying all ongoing studies was found.

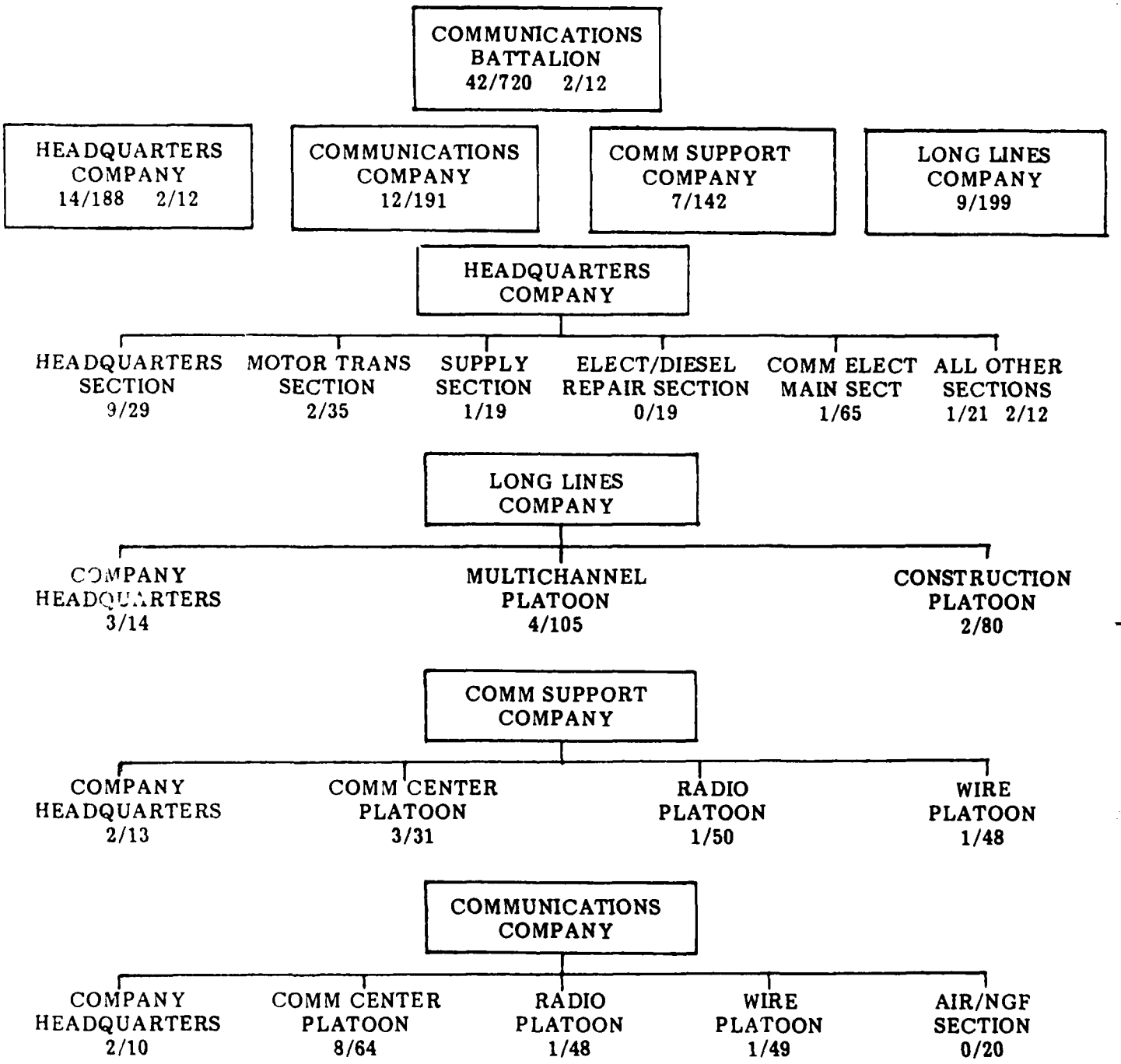
Working conferences were held at Quantico and at FMF activities on the east, west, and gulf coasts. We solicited opinions and drew on the professional expertise of commanding officers of all CONUS FMF communication units, CEOs and other communicators from HQMC, MCDEC, FMFLANT Headquarters, wings, divisions and FSSGs. The primary data base established for this study is composed of the transcripts of all these conferences.

In the course of inquiry, many alternative structures were developed in addition to the current configuration. The present structure, offered here as Option I, is the null hypothesis or the supposition that the structure should stay as it is. Subsequent

structures were developed as alternative hypotheses. Each was then tested against measures of effectiveness, and the most desirable ones chosen.

The equipment factor assigned to the measure of effectiveness was the relative increase in quantity of equipment to support each option. Increase in all presented options, except option IV, is not significant. Based on 1983 dollars, the estimated cost for additional equipment, including support items, to field option IV is less than one million dollars per communication battalion.

OPTION I


COMMUNICATIONS BATTALION
42/720 2/12
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14/188 2/12
COMMUNICATIONS COMPANY
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COMM ELECT MAIN SECT
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MULTICHANNEL PLATOON
4/105
CONSTRUCTION PLATOON
2/80
COMM SUPPORT COMPANY
COMPANY HEADQUARTERS
2/13
COMM CENTER PLATOON
3/31
RADIO PLATOON
1/50
WIRE PLATOON
1/48
COMMUNICATIONS COMPANY
COMPANY HEADQUARTERS
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COMM CENTER PLATOON
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RADIO PLATOON
1/48
WIRE PLATOON
1/49
AIR/NGF SECTION
0/20

OPTION I
(Communication, Communication Support, Long Lines, and Headquarters Companies)

This option would allow the communication battalion to remain as it is presently structured. It requires support of four company headquarters; headquarters company, communication company, communication support company, and long lines company. The primary advantage of retaining the present structure lies in the fact that it is a known structure. This option perpetuates known and established procedures, organizational memory and has an established support system. It enhances control of personnel and equipment in garrison and allows centralized maintenance. The cost to support the present structure is known, as are the inventory levels. The significant advantage of the present structure is that it is mission directed and tailored for the buildup ashore of a MAF headquarters.

A significant disadvantage to the present structure is that any support of MAGTF deployments must be done through task organizing on an ad hoc basis. There is no fixed T/O or T/E for the MAB. Without the limitation of T/O and T/E an inordinate amount of the communication assets are allocated in support of a single MAB. Constant transfer of personnel across company lines results in a disruption of command unity. Organizations assembled in this fashion are often headed by OICs with little command identification. The variations in tasking assignments for company units to form MAB communication elements also cause fragmentation of both administration and control of personnel, as well as a loss of training integrity. The driving disadvantage is the total inability of the present organization to support two MAB headquarters or a MAB and a MAF headquarters simultaneously.

The missions and tasks as established by M4888 dated 19 April 1972 follows. After the missions and tasks are the T/O's for companies in a communication battalion.

1. MISSIONS AND TASKS COMMUNICATIONS BATTALION, FMF

a. **Primary Mission.** To provide communication support to a Marine Air/Ground Task Force (MAGTF) Headquarters when deployed and operate in general communications support of Marine operations, as required.

b. **Primary Tasks**

(1) Provides internal headquarters communications for Marine Amphibious Force (MAF), Marine Amphibious Brigade (MAB), a Marine Amphibious Unit (MAU).

(2) Provides communication trunking and terminal facilities between the supported headquarters and senior, adjacent and subordinate headquarters.

(3) Provides the senior supported headquarters entry into the Naval Communications System (NCS) and/or, as appropriate, the Defense Communications System (DCS).

(4) Provides communication personnel and/or equipment or support to headquarters of the ground or air elements subordinate to the MAGTF.

2. **CONCEPT OF ORGANIZATION.** The battalion consists of four companies organized along functional lines for support of the primary mission and tasks listed above.

3. **CONCEPT OF EMPLOYMENT**

a. The battalion, when employed as the supporting communications unit of a MAF Headquarters, will normally deploy in near proximity to that headquarters. When tasked to support lesser headquarters the battalion will deploy separate task organized companies/elements which will normally be attached to the supported headquarters.

b. Operational control of the battalion and/or tasked organized elements thereof is exercised through the office of the supported headquarters staff Communications-Electronics Office. Administrative control will either be retained by the communication battalion or, as required, delegated to the administrative authority of the supported unit headquarters.

4. **ADMINISTRATIVE CAPABILITIES.** Capable of self-administration.

5. **LOGISTIC CAPABILITIES**

a. Capable of field (third echelon) maintenance on battalion organic communications-electronics equipment, less test equipment; organizational (first and second echelon) maintenance on motor transport, electrical generators and small arms; and organizational (first echelon) for other equipment and supplies; capable of organic supply functions.

b. Capable of limited maintenance of all assigned communication security equipment; capable of intermediate level maintenance of assigned microminiaturized electronic communication security equipment.

1. **MISSIONS AND TASKS COMMUNICATION SUPPORT COMPANY, COMMUNICATION BATTALION, FLEET MARINE FORCE.**

a. **Primary Mission.** To provide task organized communication teams (message center teams, radio teams, and wire teams in the combination required) for support of subordinate task organizations of a Marine Amphibious Force (MAF).

b. **Major Tasks**

(1) Furnishes communication support services to other units, as required.

(2) Assists in the echeloned displacement of the MAF Headquarters.

(3) Forms and provides communication cadres to subordinate units in the event of casualty to communication facilities.

(4) Assists in establishing advance communications facilities ashore.

(5) Assists in the operation of a joint communication center if one is established.

(6) Furnishes umpire communications during training exercises.

2. **CONCEPT OF ORGANIZATION.** The Communication Support Company is organized into functional groupings to provide for:

a. A company headquarters which directs and coordinates the actions of the entire company.

b. Three platoons organized along functional lines tailored to support the primary mission and tasks listed above.

3. **CONCEPT OF EMPLOYMENT.** The company normally operates under the direct control of the Communication Battalion. In certain situations and with some added reinforcement the company is capable of deploying as a separate unit in support of a task organization subordinate to the MAF.

4. **ADMINISTRATIVE CAPABILITIES.** Capable of self-administration.

5. **LOGISTIC CAPABILITIES.** Capable of first echelon maintenance of organic electronic equipment and equipment and supplies of other supply classifications not capable of organic supply.

1. **MISSION AND TASKS LONG LINES COMPANY, COMMUNICATION BATTALION, FLEET MARINE FORCE.**

a. **Primary Mission.** To install, operate and maintain mulitchannel radio and wire channels between the headquarters of a Marine Amphibious Force (MAF) and other Headquarters internal or external to the MAF, as required.

b. **Major Tasks**

(1) Establish, operate, and maintain the multichannel radio system/land line system between the MAF Headquarters and:

(a) Division(s) and Wing(s) Headquarters

(b) Field Artillery Group Headquarters

(c) Force Service Regiment Headquarters

(d) Other Force Combat Support/Service Support Headquarters as required.

(e) Headquarters, Amphibious Task Force Commander

(f) Other service headquarters/external agencies as required.

(2) Design, construct, operate and maintain those mobile semi-permanent facilities necessary for support of the systems in (1) above with special emphasis on land line construction capabilities.

(3) Assist the Communication Company, Communication Battalion in the installation and maintenance of the interface between the mulitchannel/land line system and the internal MAF Headquarters communication system.

2. **CONCEPT OF ORGANIZATION.** The Long Lines Company is organized into functional groupings to provide for:

a. A company headquarters which directs and coordinates the actions of the entire company.

b. Two platoons organized along functional lines tailored to support the primary mission and tasks listed above.

3. **CONCEPT OF EMPLOYMENT.** The Long Lines Company operates under the direct control of the Communication Battalion. In normal operations and employment in support of a MAF Headquarters the company deploys and collocates with the Communication Battalion. In execution of its primary mission, the company will normally be tasked to deploy specialist sections/teams for augmentation of and attachment to supported units.

4. **ADMINISTRATIVE CAPABILITIES.** Capable of self-administration.

5. **LOGISTIC CAPABILITIES.** Capable of first echelon maintenance of organic electronic equipment and equipment and supplies of other supply classifications; capable of second echelon maintenance on organic SHF equipment; not capable of organic supply.

1. **MISSION AND TASKS COMMUNICATION COMPANY, COMMUNICATION BATTALION, FLEET MARINE FORCE.**

a. **Primary Mission.** To install, operate and maintain the communications system for a Marine Amphibious Force (MAF) Headquarters or Marine Amphibious Brigade (MAB) Headquarters.

b. **Major Tasks**

(1) Install, operate, and maintain communication center facilities for the supported headquarters.

(2) Maintain radio stations on command and control, administrative, logistical and other radio nets as required.

(3) Install, operate and maintain switchboard and telephone services for the supported headquarters.

(4) With appropriate assistance from the Long Lines Company, Communication Battalion, install, operate and maintain the interface between the multichannel/land line system and the supported headquarters communications system.

(5) Provide communications support for the Naval Gunfire Officer, the Air Officer, and the supported headquarter's Fire Support Coordination Center.

(6) With appropriate augmentation and assistance from Communication Support Company, Communication Battalion, provide the communications services and equipment necessary for the echeloned displacement of the supported headquarters command post.

2. **CONCEPT OF ORGANIZATION.** The Communication Company is organized into functional groupings to provide for:

a. A company headquarters which directs and coordinates the actions of the entire company.

b. Three platoons and one separate section organized along functional lines tailored to support the primary mission and tasks listed above.

3. **CONCEPT OF EMPLOYMENT.** The Communication Company operates under the direct control of the Communication Battalion. In normal operations and employment in support of a MAF Headquarters the company deploys and collocates with the Communication Battalion. When in support of a MAB Headquarters the company, with added reinforcement, is capable of deploying as a separate unit.

4. **ADMINISTRATIVE CAPABILITIES.** Capable of self-administration.

5. **LOGISTIC CAPABILITIES.** Capable of first echelon maintenance of organic electronic equipment, and equipment and supplies of other supply classifications; not capable of organic supply.

1. **MISSION AND TASKS HEADQUARTERS COMPANY, COMMUNICATION BATTALION, FLEET MARINE FORCE.**

a. **Primary Mission.** To provide command, administration, logistics, maintenance and housekeeping support for a Force Communication Battalion.

b. **Major Tasks**

(1) Provide the command and staff elements required for the command and control of the battalion.

(2) Provide messing, medical service and local security for the battalion and administrative support for other subordinate elements of the battalion, as required.

(3) Perform organic supply functions for the battalion, to include repair parts stockage and issue for maintenance activities.

(4) Provide organic transportation for the company and the battalion headquarters; provide heavy transportation support to operating companies, as required.

(5) Provide primary electrical power distribution and service for the battalion.

(6) Provide Communication-Electronics equipment maintenance support to operating companies, as required.

2. **CONCEPT OF ORGANIZATION.** The company is organized into functional groupings to provide for:

a. A battalion headquarters for commmand direction and coordination of actions for the entire battalion.

b. A company headquarters for direction and coordination of actions of the company.

c. Various sections in support of the primary mission and tasks listed above.

3. **CONCEPT OF EMPLOYMENT.** The company collocates with the battalion headquarters, and operates intact in support of the battalion when it is deployed. As required, the various sections can be task organized to provide augmentation support to deployed elements of the battalion.

4. **ADMINISTRATIVE CAPABILITIES.** Capable of self-administration.

5. **LOGISTIC CAPABILITIES.**

a. Capable of field (third echelon) maintenance on battalion organic communications-electronics equipment, less test equipment; organization (first and second echelon) maintenance on motor transport, electrical generators and small arms; and organizational (first echelon) for other equipment and supplies; capable of organic supply functions.

b. Capable of limited maintenance of all assigned communication security equipment; capable of intermediate level maintenance of assigned microminiaturized electronic communication security equipment.

HEADQUARTERS COMPANY COMMUNICATION BATTALION
T/O Checklist Dated 19 October 1982

T/O No 4886

TITLE	RANK	MOS	TOTAL	
Battalion Headquarters				
Headquarters Section				
Battalion Commander	LtCol	2502	1	
Executive Officer	Major	2502	1	
Sergeant Major	SgtMaj	9999		1
Messenger/Driver	LCpl	2512		1
Messenger/Driver	Pvt	2512		1
	SECTION TOTAL			
			2	3
S-1 Adjutant Section				
S-1/Adjutant	Lt	0180	1	
Pers Clas/Asg O/Legal O	WO	0170	1	
Pers/Admin Chief	GySgt	0193		1
Personnel Chief	Sgt	0121		1
Personnel Clerk	Cpl	0121		1
Admin Clerk	Cpl	0151		1
Pers Clerk	LCpl	0121		1
Unit Diary Clerk	LCpl	0131		1
Unit Diary Clerk	Pvt	0131		1
Personnel Clerk	Pvt	0121		1
Career Planner	SSgt	8421		1
Legal Serv Rptr Spcm	Cpl	4421		1
Admin Clerk	Cpl	0151		1
Admin Clerk	LCpl	0151		1
Unit Diary Clerk	Sgt	0131		1
Admin Clerk	Pvt	0151		2
	SECTION TOTAL			
			2	15
S-3 Section				
Operations Officer	Major	2502	1	
Asst Operations Officer	Lt	2502	1	
Asst Operations Off/ NBC Defense Off	Lt	2502/5702	1	
Operations Chief	MGySgt	2591		1
Operations NCO	GySgt	2591		1
ACEOI Manager	SSgt	2537		1
NBC Specialist	SSgt	5711		1
Operations Clerk	Cpl	2531		1
Construction Draftsman	LCpl	1411		2
Operations Clerk	Pvt	2542		1
	SECTION TOTAL			
			3	8

HEADQUARTERS COMPANY COMMUNICATION BATTALION (Cont'd)
T/O Checklist Dated 19 October 1982

T/O No 4886

TITLE	RANK	MOS	TOTAL	
S-4/Supply Section				
S-4	Major	0402	1	
S-4A	Lt	2502	1	
Logistics NCO	Sgt	0441		1
Maint Mgmt Officer	Capt	0402	1	
Logistics Man	Sgt	0441		1
MARES Clerk	LCpl	0441		1
	SECTION TOTAL		3	3
Supply Section				
Supply Officer	Capt	3002	1	
Supply Chief	GySgt	3043		1
Supply Admin Man	SSgt	3043		1
Inf Weapons Armorer	Cpl	2111		1
Supply Admin Man	Sgt	3043		1
Gen Warehouseman	SSgt	3051		1
Supply Admin Man	Cpl	3043		3
Inf Weapons Armorer	LCpl	2111		1
Gen Warehouseman	Cpl	3051		2
Supply Admin Man	LCpl	3043		2
Supply Admin	Pvt	3043		2
Admin Clerk	Pvt	0151		1
Gen Warehouseman	Pvt	3051		3
	SECTION TOTAL		1	19
Comm-Elect Maint Section				
C-E Maint Officer	Capt	2802	1	
C-E Maint Chief	MGySgt	2891		1
Electronic Stockman	LCpl	2811		1
Admin Man	Pvt	0151		1
Radio Unit				
Radio Tech	MSgt	2861		1
Radio Tech	GySgt	2861		1
M/W Radio Tech	GySgt	2861		1
Satellite Terminal Tech	SSgt	2864		2
Satellite Terminal Repairman	Sgt	2833		1
Radio Tech	SSgt	2861		3
M/W Radio Tech	SSgt	2861		1
Radio Tech	Sgt	2861		2
M/W Radio Repairman	Sgt	2831		2
Radio Repairman	Cpl	2841		4
M/W Radio Repairman	Cpl	2831		1
Radio Repairman	LCpl	2841		6
M/W Radio Repairman	LCpl	2831		1
Digital Swt Equip Tech	GySgt	2822		1

HEADQUARTERS COMPANY COMMUNICATION BATTALION (Cont'd)
T/O Checklist Dated 19 October 1982

T/O No 4886

TITLE	RANK	MOS	TOTAL	
Telephone Unit				
Telephone Tech	SSgt	2811		1
Digital Switch Equip Tech	SSgt	2822		1
Telephone Tech	Sgt	2811		2
Digital Switch Equip Tech	Sgt	2822		2
Telephone Repairman Tech	Cpl	2811		1
CommCen Unit				
Mobile CommCen Tech	MSgt	2829		1
KG-13 TTY Tech	GySgt	2819		1
Mob Data Comm Term Tech	SSgt	2827		1
Mobile CommCen Tech	SSgt	2829		1
KG-13 TTY Tech	SSgt	2818		1
KW-26 Term Tech	Sgt	2828		1
Mob Data Comm Term Tech	Sgt	2827		1
Mobile CommCen Tech	Sgt	2829		1
Teletype Tech	Sgt	2818		2
Mob Data Comp Term Repairman	Cpl	2827		2
Mobile CommCen Repairman	Cpl	2829		2
KG-13 TTY Repairman	Cpl	2819		2
ComSec Unit				
ComSec Equip Tech	GySgt	2881		1
ComSec Equip Tech	SSgt	2881		2
Teletype Tech	Sgt	2818		2
ComSec Equip Repairman	Cpl	2881		3
Technical Controller	MSgt	2823		1
Technical Controller	GySgt	2823		1
Tech Controller	SSgt	2823		1
Tech Controller	Sgt	2823		1
	SECTION TOTAL		1	65
Motor Transport Section				
Motor Transport Officer	Capt	3502	1	
Asst MTO/Maint Off	WO	3510	1	
MT Chief	MSgt	3529		1
Maintenance Unit				
Maintenance Chief	GySgt	3529		1
Auto Mechanic	SSgt	3529		1
Auto Mechanic	Sgt	3521		3
Auto Mechanic	Cpl	3521		5
Auto Mechanic	LCpl	3521		9
Wrecker Driver	LCpl	3523		1
Auto Mechanic	Pvt	3521		4
Operations Unit				
Section Leader	SSgt	3537		1
MV Oper/Dispatcher	Cpl	3531		2
MV Operator	LCpl	3531		3
MV Operator	Pvt	3531		4
	SECTION TOTAL		2	35

HEADQUARTERS COMPANY COMMUNICATION BATTALION (Cont'd)
T/O Checklist Dated 19 October 1982

T/O No 4886

TITLE	RANK	MOS	TOTAL	OTHER SERVICES	
Elec/Diesel Repair Section					
Utilities Chief	GySgt	1169	1		
Elect Equip Repairman	SSgt	1142	1		
Elect Equip Repairman	Sgt	1142	1		
Engr Equip Repairman	Sgt	1341	1		
Electrician	Cpl	1141	1		
Electrician	LCpl	1141	1		
Electrician	Pvt	1141	2		
Elec Equip Repairman	Cpl	1142	2		
Elec Equip Repairman	LCpl	1142	2		
Elec Equip Repairman	Pvt	1142	2		
Engr Equip Mech	Cpl	1341	1		
Engr Equip Mech	LCpl	1341	2		
Engr Equip Mech	Pvt	1341	2		
	SECTION TOTAL		19		
Food Services Section					
Mess Mgmt Chief	GySgt	3381	1		
Cook	Sgt	3381	3		
Cook	Cpl	3381	3		
Cook	Cpl	3381	1		
Baker	Cpl	3311	3		
Cook	LCpl	3381	4		
Cook	Pvt	3381	2		
	SECTION TOTAL		17		
Medical Section					
Medical Officer	Lt	2100		1	
Med Fld Serv Tech	HMC	8404			1
Med Fld Serv Tech	HM1	8404			2
Med Fld Serv Tech	HM2	8404			3
Med Fld Serv Tech	HM3	8404			5
	SECTION TOTAL				
	NAVY			1	11
Chaplain Section					
Chaplain	Lt	4100		1	
Rel Prog Asst	RP3	0000			1
Admin Clerk	LCpl	0151	1		
	SECTION TOTAL				
	MARINE		1		
	NAVY			1	1

HEADQUARTERS COMPANY COMMUNICATION BATTALION (Cont'd)
T/O Checklist Dated 19 October 1982

T/O No 4886

TITLE	RANK	MOS	TOTAL		OTHER SERVICES	
Company Headquarters						
Company Commander	Capt	2502	1			
First Sergeant	1stSgt	9999		1		
Property NCO	Sgt	3051		1		
Messenger/Driver	Pvt	2512		1		
	SECTION TOTAL		1	3		
	HQ CO TOTALS					
	MARINE		14	188		
	NAVY				2	12

COMMUNICATION SUPPORT COMPANY
COMMUNICATION BATTALION FMF
T/O Checklist Dated 19 October 1982

T/O No 4863M

TITLE	RANK	MOS	TOTAL MARINES	
Company Headquarters				
Company Commander	Capt	2502	1	
Executive Officer	Lt	2502	1	
First Sergeant	1stSgt	9999		1
Operations Chief	SSgt	2549		1
Property NCO	Cpl	3051		1
MV Operator	Cpl	3531		1
Operations Clerk	LCpl	2531		1
MV Operator	LCpl	3531		2
Messenger/Driver	Pvt	2512		1
MV Operator	Pvt	3531		5
	SECTION TOTAL		2	13
Communications Center Platoon				
Platoon Headquarters				
Plat Cdr/Comm Center Officer	Lt	2502	1	
Comm Watch Officer	Lt	2502	2	
Comm Center Chief	GySgt	2549		1
Cryptographic Section				
Cryptographer	GySgt	2549		2
Cryptographer	SSgt	2549		2
Cryptographer	Sgt	2549		2
Comm Center Section				
Comm Center Supervisor	SSgt	2549		2
Teletype Supervisor	Sgt	2542		2
Comm Center Man	Cpl	2542		2
Teletype Operator	LCpl	2542		4
Comm Center Man	LCpl	2542		4
Teletype Operator	Pvt	2542		6
Comm Center Man	Pvt	2542		4
	SECTION TOTAL		3	31
Radio Platoon				
Plt Cmdr/Tlcm O/Crypto O	WO	2805	1	
Platoon Sgt	GySgt	2537		1
Field Radio Operator	Sgt	2531		3
HF Radio Operator	Sgt	2534		2
Field Radio Operator	Cpl	2531		8
HF Radio Operator	Cpl	2534		4
Field Radio Operator	LCpl	2531		9
HF Radio Operator	LCpl	2534		7
Field Radio Operator	Pvt	2531		11
HF Radio Operator	Pvt	2534		5
	SECTION TOTAL		1	50

COMMUNICATION SUPPORT COMPANY (Cont'd)
COMMUNICATION BATTALION FMF
T/O Checklist Dated 19 October 1982

T/O No 4863M

TITLE	RANK	MOS	TOTAL MARINES	
Wire Platoon				
Plt Cmdr/Wire O/Crypto O	WO	2810	1	
Plt Sgt/Wire Chief	GySgt	2519		1
Wire Supervisor	SSgt	2519		1
Wireman	Sgt	2512		3
Wireman	Cpl	2512		8
Switchboard Repairman	Cpl	2811		1
Wireman	LCpl	2512		12
Wireman	Pvt	2512		22
	SECTION TOTAL		1	48
	ORGANIZATION TOTALS		7	142

LONG LINES COMPANY
COMMUNICATION BATTALION FMF
T/O Checklist dated 19 October 1982

T/O No 4873M

TITLE	RANK	MOS	TOTAL MARINES	
Company Headquarters				
Company Commander	Major	2502	1	
Executive Officer	Capt	2502	1	
Operations Officer	Capt	2502	1	
First Sergeant	1stSgt	9999		1
Operations Chief	SSgt	2537		1
MV Operator	Sgt	3531		1
Property NCO	Cpl	3051		1
MV Operator	Cpl	3531		2
Operations Clerk	LCpl	2532		1
MV Operator	LCpl	3531		3
Messenger/Driver	Pvt	2512		1
MV Operator	Pvt	3531		3
	SECTION TOTAL		3	14
Multichannel Radio Platoon				
Platoon Headquarters				
Platoon Commander	Lt	2502	1	
Asst Platoon Commander	Lt	2802	1	
Multichannel Chief	MSgt	2591		1
Asst Multichannel Chief	GySgt	2537		1
Messenger/Driver	Pvt	2531		1
VHF Section				
Section Leader	WO	2502	1	
Section Chief	SSgt	2537		1
Field Radio Operator	Sgt	2531		9
Field Radio Operator	Cpl	2531		18
Field Radio Operator	LCpl	2531		28
SHF Section				
Section Leader	WO	2502	1	
Section Chief	SSgt	2537		1
8 Terminal Teams/Each				8 Each
Team Chief	Sgt	2532		1
M/W Operator	Cpl	2532		1
M/W Operator	Cpl	2831		1
	SECTION TOTAL		4	84
SATCOM Section				
Section Chief	GySgt	2864		1
1 SATCOM Terminal Team/Each				
Team Chief	SSgt	2864		1
SATCOM Operator	Sgt	2531		1
SATCOM Operator	Cpl	2531		1
SATCOM Operator	LCpl	2531		1

LONG LINES COMPANY
COMMUNICATION BATTALION FMF (Cont'd)
T/O Checklist dated 19 October 1982

T/O No 4873M

TITLE	RANK	MOS	TOTAL MARINES	
4 SATCOM Terminal Teams				4 Each
Team Chief	Sgt	2833		1
SATCOM Operator	Sgt	2531		1
SATCOM Operator	Cpl	2531		1
SATCOM Operator	LCpl	2531		1
	SECTION TOTAL			21
Construction Platoon				
Platoon Headquarters				
Platoon Commander	Lt	2502	1	
Asst Platoon Commander	WO	2810	1	
Wire Chief	GySgt	2519		1
Wire Supervisor	SSgt	2519		4
MV Operator	Cpl	3531		1
Engr Equip Operator	LCpl	1345		1
Construction Draftsman	LCpl	1411		1
Warehouseman	LCpl	3051		1
MV Operator	LCpl	3531		3
Messenger/Driver	Pvt	2512		1
MV Operator	Pvt	3531		1
	SECTION TOTAL		2	14
Cable Section				
Section Chief	SSgt	2813		1
Cable Splicer	Sgt	2813		2
Cable Splicer	Cpl	2813		2
Cable Splicer	LCpl	2813		2
Cable Splicer	Pvt	2813		3
Wire Teams				8 Each
Wire Team Chief	Sgt	2513		1
Wireman	Cpl	2513		1
Wireman	LCpl	2513		2
Wireman	Pvt	2513		2
MV Operator	Pvt	3531		1
	SECTION TOTAL			66
	ORGANIZATION TOTALS		9	199

COMMUNICATION COMPANY
COMMUNICATION BATTALION FMF
T/O Checklist dated 19 Oct 1982

T/O No 4863M

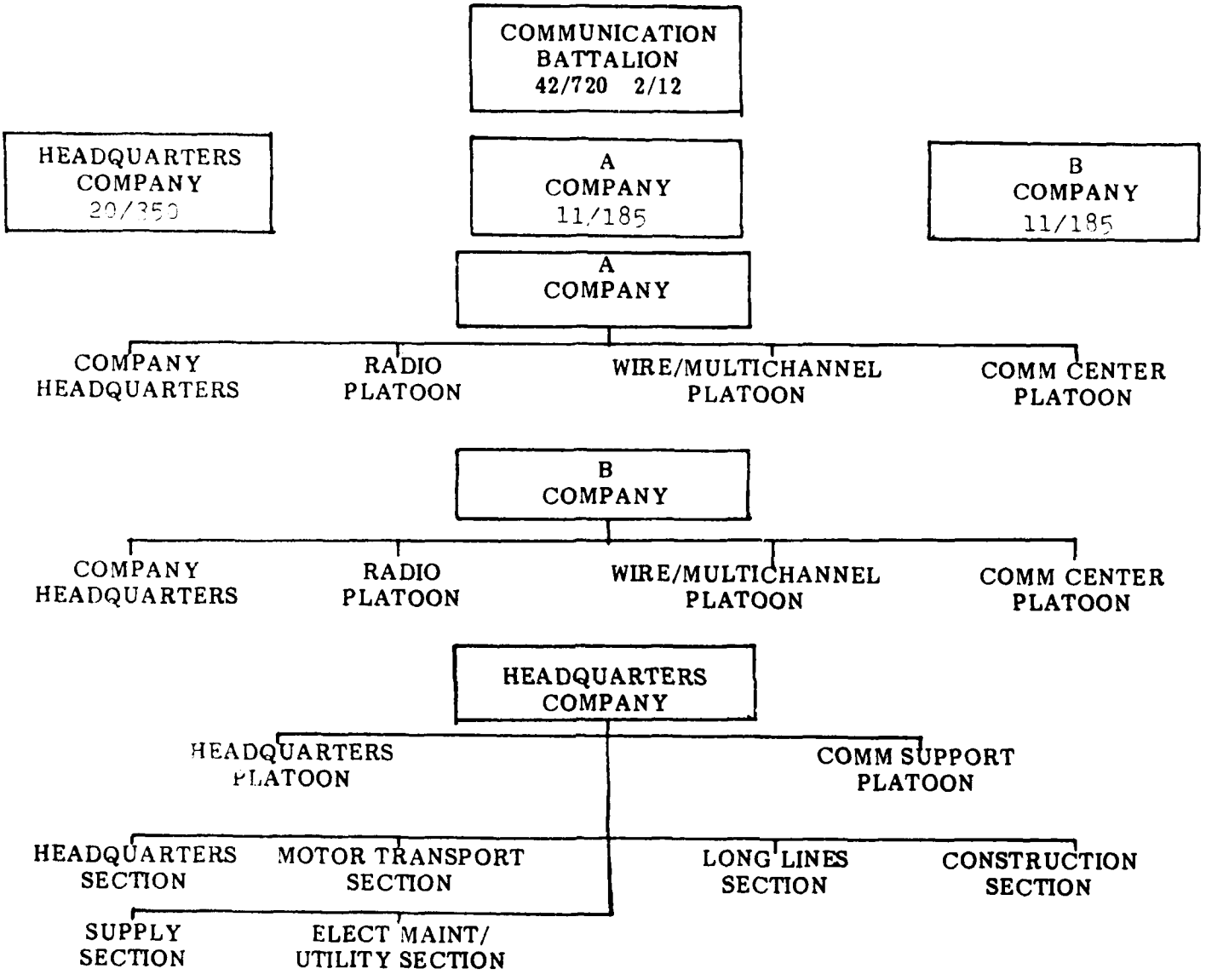
TITLE	RANK	MOS	TOTAL MARINES	
Company Headquarters				
Company Commander	Major	2502	1	
Executive Officer	Capt	2502	1	
First Sergeant	1stSgt	9999		1
Operations Chief	MSgt	2591		1
MV Operator	Sgt	3531		1
Property NCO	Cpl	3051		1
MV Operator	Cpl	3531		1
Operations Clerk	LCpl	2531		1
MV Operator	LCpl	3531		3
Messenger/Driver	Pvt	2531		1
	SECTION TOTAL		2	10
Communication Center Platoon				
Platoon Headquarters				
Plat Cdr/Comm Cen Off	Capt	2502	1	
Asst Comm Cen Off	Lt	2502	1	
Comm Watch Officer	Lt	2502	3	
Crypto O/OIC RPS Pubs	Lt	2502	1	
Watch Officer	Lt	2502	2	
Comm Cen Chief	MSgt	2591		1
Cryptographic Section				
Cryptographer	GySgt	2549		2
Cryptographer	SSgt	2549		2
Cryptographer	Sgt	2549		2
Message Center Section				
Comm Center Supervisor	GySgt	2549		1
Asst Comm Center Supervisor	SSgt	2549		3
Comm Center Man	Sgt	2542		2
Comm Center Man	Cpl	2542		3
Comm Center Man	LCpl	2542		18
MV Operator	LCpl	3531		1
MV Operator	Pvt	3531		9
Teletype Section				
Teletype Supervisor	Sgt	2542		1
Teletype Operator	Cpl	2542		3
Teletype Operator	LCpl	2542		16
	SECTION TOTAL		8	64
Radio Platoon				
Platoon Commander	Capt	2502	1	
Radio Chief	MSgt	2591		1
Radio Supervisor	GySgt	2537		1
Radio Supervisor	SSgt	2537		1
Radio Supervisor Asst	Sgt	2531		2

COMMUNICATION COMPANY
COMMUNICATION BATTALION FMF (Cont'd)
T/O Checklist dated 19 Oct 1982

T/O No 4883M

TITLE	RANK	TOTAL MOS	MARINES	
TACSAT Radio Supv Asst	Sgt	2542		1
Field Radio Operator	Cpl	2531		10
TACSAT Repairer	Cpl	2833		4
Field Radio Operator	LCpl	2531		9
TACSAT Operator	LCpl	2542		5
Field Radio Operator	Pvt	2531		9
TACSAT Operator	Pvt	2542		5
	SECTION TOTAL		1	48
Wire Platoon				
Platoon Commander	WO	2810	1	
Wire Chief	MSgt	2591		1
Asst Wire Chief	GySgt	2519		1
Central Off Inst/Repairman	SSgt	2814		1
Wireman	Sgt	2513		4
Central Off Inst/Repairman	Sgt	2814		1
Cable Splicer	Sgt	2813		1
Wireman	Cpl	2512		8
Central Off Inst/Rprmn	Cpl	2814		2
Cable Splicer	Cpl	2813		2
Wireman	LCpl	2512		14
Wireman	Pvt	2512		14
	SECTION TOTAL		1	49
Air/Naval Gunfire Section				
Force NGF Team				
NGF Chief/Section Leader	GySgt	0861		1
Radio Chief	Cpl	2531		1
Field Radio Operator	LCpl	2531		3
Field Radio Operator	Pvt	2531		3
Radio Telegraph Operator	Pvt	2531		2
Force TACP				
Radio Chief	Cpl	2531		1
Field Radio Operator	LCpl	2531		1
Radio Telegraph Operator	LCpl	2531		1
Field Radio Operator	Pvt	2531		1
Radio Telegraph Operator	Pvt	2531		2
FSCC Team				
Team Chief	Sgt	2811		1
Wireman	Cpl	2513		1
Telephone Repairman	Cpl	2311		1
Wireman	LCpl	2513		1
	SECTION TOTAL			20
	ORGANIZATION TOTALS		12	191

OPTION II


COMMUNICATION BATTALION 42/720 2/12
HEADQUARTERS COMPANY 20/350
A COMPANY 11/185
B COMPANY 11/185
A COMPANY
COMPANY HEADQUARTERS
RADIO PLATOON
WIRE/MULTICHANNEL PLATOON
COMM CENTER PLATOON
B COMPANY
COMPANY HEADQUARTERS
RADIO PLATOON
WIRE/MULTICHANNEL PLATOON
COMM CENTER PLATOON
HEADQUARTERS COMPANY
HEADQUARTERS PLATOON
COMM SUPPORT PLATOON
HEADQUARTERS SECTION
MOTOR TRANSPORT SECTION
LONG LINES SECTION
CONSTRUCTION SECTION
SUPPLY SECTION
ELECT MAINT/ UTILITY SECTION

OPTION II
(Two MAB Companies and a Headquarters Company)

Option II proposes that the communication battalion be restructured to consist of a headquarters company and two identical communication companies. Each communication company would be purposely configured to support a brigade sized MAGTF. The personnel and equipment to form the two MAB communication companies would come from the existing communication company and communication support company with multichannel equipment taken from the present long lines company. The residual of long lines company and communication support company would then be combined into a general support communication platoon within headquarters company. Such a platoon could be assimilated into headquarters company with minimal disruption. The general support communication platoon would retain the capability of installing long haul circuits and be tasked with specialized augmentation of either or both operational companies as required on a task organized basis. Resident within the general support communication platoon would be selected low density, cumbersome items requiring specialized maintenance, installation and operation (i.e., TTC-38, TYC-5A, TRC-97, TSQ-84, etc.). In this configuration the communication battalion would provide austere communication support for two MAB headquarters or a MAB and a MAF headquarters simultaneously deployed for an extremely limited period of time. Augmentation for continued operations and for displacement of command posts would be required from sources external to the battalion.

This structure would further facilitate personnel administration, command unity, equipment inventory, supply and unit rotation. Unit rotation of communication personnel overseas would improve training, retain corporate knowledge within the unit, increase morale and encourage a spirit of cohesiveness, thereby enhancing communication efficiency throughout the Marine Corps. Of options II, III, and IV providing communication support for simultaneously brigade size or larger deployments this option requires the least disruption of existing structures.

Although this option reduces the number of company headquarters to three, the addition of a general support communication platoon to headquarters company would result in a substantial increase in size to a company which is already large.

Missions and tasks for the battalion will remain as shown for option I. Those missions and tasks assigned communication support company and long lines company will be performed by the unit joining the resources.

HEADQUARTERS COMPANY COMMUNICATION BATTALION

TITLE	RANK	MOS	PROPOSED TOTAL	
Battalion Headquarters				
Headquarters Section				
Battalion Commander	LtCol	2502	1	
Executive Officer	Maj	2502	1	
Sergeant Major	SgtMaj	9999		1
Messenger/Driver	LCpl	2512		1
Messenger/Driver	Pvt	2512		1
	SECTION TOTAL		2	3
S-1/Adjutant Section				
S-1/Adjutant	Lt	0180	1	
Pers Class/ASG O/Legal G	WO	0170	1	
Pers/Admin Chief	GySgt	0193		1
Pers Chief	Sgt	0121		1
Pers Clerk	Cpl	0121		1
Admin Clerk	Cpl	0151		1
Personnel Clerk	LCpl	0121		1
Unit Diary Clerk	LCpl	0131		1
Unit Diary Clerk	Pvt	0131		1
Personnel Clerk	Pvt	0121		1
Career Planner	SSgt	8421		1
Legal Serv Rptr Spcm	Cpl	4421		1
Admin Clerk	Cpl	0151		1
Admin Clerk	LCpl	0151		1
Unit Diary Clerk	Sgt	0131		1
Admin Clerk	Pvt	0151		2
	SECTION TOTAL		2	15
S-3 Section				
Operations Officer	Maj	2502	1	
Asst Operations Officer	Capt	2502	1	
Asst Ops OFF/NBC DefenseO	Lt	2502/5702	1	
Operations Chief	MGySgt	2591		1
Operations NCO	GySgt	2591		1
ACEOI Manager	SSgt	2537		1
NBC Specialist	SSgt	2537		1
Operations Clerk	Cpl	2531		1
Construction Draftsman	LCpl	1411		2
Operations Clerk	Pvt	2542		1
	SECTION TOTAL		3	8

HEADQUARTERS COMPANY COMMUNICATION BATTALION (Cont'd)

TITLE	RANK	MOS	PROPOSED TOTAL	
S-4/Supply Section				
S-4	Maj	0402	1	
S-4A	Lt	2502	1	
Logistics NCO	Sgt	0441		1
Maint Management Officer	Capt	0402	1	
Logistics Man	Sgt	0441		1
MARES Clerk	LCpl	0441		1
	SECTION TOTAL		3	3
Supply Section				
Supply Officer	Capt	3002	1	
Supply Chief	GySgt	3043		1
Supply Admin Man	SSgt	3043		1
Inf Weapons Armorer	Cpl	2111		1
Supply Admin Man	Sgt	3043		1
Gen Whseman	SSgt	3051		1
Supply Admin Man	Cpl	3043		3
Inf Wpns Armorer	LCpl	2111		1
Gen Whseman	Cpl	3051		2
Supply Admin Man	LCpl	3043		2
Supply Admin	Pvt	3043		2
Admin Clerk	Pvt	0151		1
Gen Whseman	Pvt	3051		3
	SECTION TOTAL		1	19
Comm-Elec/Engrs Main Sect				
C-E Maint Off	Capt	2802	1	
C-E Maint Chief	MGySgt	2891		1
Electronic Stockman	LCpl	2811		1
Admin Man	Pvt	0151		1
Radio Unit				
Radio Tech	MSgt	2861		1
Radio Tech	GySgt	2861		1
M/W Radio Tech	GySgt	2861		1
Satellite Term Tech	SSgt	2864		2
Satellite Term RPR	Sgt	2833		1
Radio Tech	SSgt	2861		3
M/W Radio Tech	SSgt	2861		1
Radio Tech	Sgt	2861		2
M/W Radio Tech	Sgt	2831		2
Radio Rprman	Cpl	2841		4
M/W Radio Rprman	Cpl	2831		1
Radio Rprman	LCpl	2841		6
M/W Radio Rprman	LCpl	2831		1
Digitial Swt Equip Tech	GySgt	2822		1

HEADQUARTERS COMPANY COMMUNICATION BATTALION (Cont'd)

TITLE	RANK	MOS	PROPOSED TOTAL	
Telephone Unit				
Telephone Tech	SSgt	2811		1
Digital Switch Equip Tech	SSgt	2822		1
Telephone Tech	Sgt	2811		2
Digital Switch Equip Tech	Sgt	2822		2
Tele Central Install/Rprman	Cpl	2814		2
Telephone Repairman	Cpl	2811		1
Cable Splicer	LCpl	2813		2
Comm Cen Unit				
Mobile Comm Cen Tech	MSgt	2829		1
KG-13 TTY Tech	GySgt	2819		1
Mob Data Comm Term Tech	SSgt	2827		1
Mobile Comm Cen Tech	SSgt	2829		1
KG-13 TTY Tech	SSgt	2818		1
KW-26 Term Tech	Sgt	2827		1
Mob Data Comm Term Tech	Sgt	2827		1
Mobile Comm Cen Tech	Sgt	2829		1
Teletype Tech	Sgt	2818		2
Mob Data Comm Term Rprman	Cpl	2827		2
Mobile Comm Cen Rprman	Cpl	2829		2
KG-13 TTY Rprman	Cpl	2813		2
Comm Sec Unit				
Comm Sec Equip Tech	GySgt	2881		1
Comm Sec Equip Tech	SSgt	2881		2
Teletype Tech	Sgt	2818		2
Comm Sec Equip Rprman	Cpl	2881		3
Elect/Diesel Rpr Section				
Utilities Chief	GySgt	1169		1
Elect Equip Rprman	SSgt	1142		1
Elect Equip Rprman	Sgt	1142		1
Engr Equip Rprman	Sgt	1341		1
Electrician	Cpl	1141		1
Electrician	LCpl	1141		1
Electrician	Pvt	1141		2
Elec Equip Rprman	Cpl	1142		2
Elec Equip Rprman	LCpl	1142		2
Elec Equip Rprman	Pvt	1142		2
Engr Equip Mech	Cpl	1341		1
Engr Equip Mech	LCpl	1341		2
Engr Equip Mech	Pvt	1341		2
	SECTION TOTAL		1	84
Motor Transport Section				
Motor Transport Officer	Capt	3502	1	
Asst MTO/Maint Officer	WO	3510	1	
MT Chief	MSgt	3529		1

HEADQUARTERS COMPANY COMMUNICATION BATTALION (Cont'd)

TITLE	RANK	MOS	PROPOSED TOTAL	
Maintenance Unit				
Maintenance Chief	GySgt	3529		1
Auto Mechanic	SSgt	3529		1
Auto Mechanic	Sgt	3521		3
Auto Mechanic	Cpl	3521		5
Auto Mechanic	LCpl	3523		9
Wrecker Driver	LCpl	3523		2
Auto Mechanic	Pvt	3521		4
Operations Unit				
Section Leader	SSgt	3537		1
MV Oper/Dispatcher	Cpl	3531		2
MV Oper	Sgt	3531		2
MV Oper	Cpl	3531		7
MV Oper	Pvt/LCpl	3531		39
	SECTION TOTAL		2	80
Food Services Section				
Mess MGMT Chief	GySgt	3381		1
Cook	Sgt	3381		3
Cook	Cpl	3381		3
Cook	Cpl	3381		1
Baker	Cpl	3311		3
Cook	LCpl	3381		4
Cook	Pvt	3381		2
	SECTION TOTAL		0	17

TITLE	RANK	MOS	PROPOSED TOTAL		
			NAVY		
Medical Section					
Medical Officer	Lt	2100	1		
Med Fld Serv Tech	HMC	8404		1	
Med Fld Serv Tech	HM1	8404		2	
Med Fld Serv Tech	HM2	8404		3	
Med Fld Serv Tech	HM3	8404		5	
	SECTION TOTAL		1	11	

TITLE	RANK	MOS	PROPOSED TOTAL		
			NAVY		**MARINE**
Chaplain Section					
Chaplain	Lt	4100	1		
Rel Prog Asst	RP3	0000		1	
Admin Clerk	LCpl	0151			1
	SECTION TOTAL		1	1	1

HEADQUARTERS COMPANY COMMUNICATION BATTALION (Cont'd)

TITLE	RANK	MOS	PROPOSED TOTAL	
Comm Supt Platoon				
Platoon Commander	Capt	2502	1	
Operations Officer	Lt	2502	1	
Operations Chief	MSgt	2591		1
Operations Clerk	Cpl	2532		1
Property NCO	Cpl	3051		1
Messenger/Driver	Pvt	2512		1
Tech Control Section				
Tech Controller	MSgt	2823		1
Tech Controller	SSgt	2823		1
Tech Controller	Sgt	2823		1
Data Terminal Section				
Data Terminal Sect Ldr	SSgt	2549		1
Data Terminal Supvr	Sgt	2549		2
Data Terminal Operator	Cpl	2542		2
Data Terminal Operator	LCpl	2542		2
Digital Switchboard Section				
Digital Switchboard Supvr	GySgt	2519		1
Digital Switchboard Opr	SSgt	2519		1
Digital Switchboard Opr	Sgt	2512		2
Sat Comm Term Sect				
Sat Comm Team Leader/Tech	SSgt	2864		1
Sat Comm Team Supvr/Rprman	Sgt	2833		1
Sat Comm Opr	Cpl	2531		1
Sat Comm Opr	LCpl	2531		1
Sat Comm Opr	Cpl	2542		1
Sat Comm Opr	LCpl	2542		1
SHF Term Section				
SHF Section Leader	Lt	2502	1	
SHF Section Chief	SSgt	2537		1
Messenger	LCpl	2512		1
8 Terminal Teams/Each				8 each
Team Chief	Sgt	2532		1
M/W Operator	Cpl	2532		1
M/W Rprman	Cpl	2532		1
Construction Section				
Section Leader	WO	2810	1	
Wire Chief	GySgt	2519		1
Whseman	LCpl	3051		1
Engr Equip Opr	LCpl	1345		1
Constr Draftsman	LCpl	1411		1
Cable Team	SSgt	2813		1
Team Leader	SSgt	2813		2
Cable splicer	Sgt	2813		2
Cable splicer	Cpl	2813		2
Cable splicer	LCpl	2813		2
Wire Section				
Wire Supervisor	SSgt	2519		1
2 Wire Teams/Each				8 each
Team Leader	Sgt	2513		1
Wireman	Cpl	2513		1
Wireman	LCpl	2513		2
Wireman	Pvt	2513		2
	SECTION TOTAL		4	113

HEADQUARTERS COMPANY COMMUNICATION BATTALION (Cont'd)

TITLE	RANK	MOS	PROPOSED TOTAL		
Company Headquarters					
Company Commander	Maj	2502	1		
Executive Officer/OPSO	Capt	2502	1		
First Sergeant	1stSgt	9999		1	
Company Gunnery Sergeant	GySgt	9916		1	
Training NCO	Sgt	2531		1	
Operations Clerk	Cpl	2531		1	
Operations Clerk	LCpl	2531		1	
Messenger/Driver	Pvt	2512		1	
Property NCO	Cpl	3051		1	
	SECTION TOTAL		2	7	
	HQ COMPANY TOTALS		20	350	MARINES
			2	12	NAVY

A recommended structure for the Communication Support Platoon (4/113) is shown below.

Platoon Headquarters (2/4)

Plt Commander	Capt	2502
Operations Off	Lt	2502
Operations Chf	MSgt	2591
Operations Clerk	Cpl	2532
Property NCO	Cpl	3051
Messenger/Driver	Pvt	2512

Technical Control Section

Tech Control Chf	MSgt	2823
Tech Controller	GySgt	2823
" "	SSgt	2823
" "	Sgt	2823

SatComm Terminal Team (0/6)

Team Ldr/Tech	SSgt	2864
Team Spr/Rprman	Sgt	2833
Sat Comm Opr	Cpl	2531
Sat Comm Opr	LCpl	2531
Sat Comm Opr	Cpl	2542
Sat Comm Opr	LCpl	2542

Construction Section (1/62)

Construction Section Hqtrs (1/4)

Sect Ldr	CWO-2	2810
Wire Chief	GySgt	2519
Warehouseman	LCpl	3051
Engr Equip Opr	LCpl	1345
Constr Draftsmen	LCpl	1411

Wire Teams (0/49)

Team Super	SSgt	2519
8 Teams		
1 Wireman	Sgt	2513
1 Wireman	Cpl	2513
2 Wireman	LCpl	2513
2 Wireman	Pvt	2513

Cable Team (0/9)

1 Team Ldr	SSgt	2813
2 Splicers	Sgt	2813
2 Splicers	Cpl	2813
2 Splicers	Pvt	2813

Data Terminal Section (0/7)

1 Data Terminal Sect Ldr	SSgt	2549
2 Data Terminal Super	Sgt	2549
2 Data Terminal Opr	Cpl	2542
2 Data Terminal Opr	LCpl	2542

Digital Switchboard Section (0/4)

Digital Switchboard Super	GySgt	2519
" "	SSgt	2519
" "	Sgt	2512
" "	Sgt	2512

SHF Section (1/26)

Section Leader	Lt	2502
Section Chief	SSgt	2537
Driver	LCpl	2512

SHF Terminal Teams (8)

Team Chief	Sgt	2532
M/W Operator	Cpl	2532
M/W Rprman	Cpl	2831

MAB Communication Company
Communication Battalion FMF (each)

TITLE	RANK	MOS	PROPOSED	
Company Headuarters				
Company Commander	Maj	2502	1	
Executive Officer	Capt	2502	1	
First Sergeant	1stSgt	9999		1
Opns Chief	MSgt	2591		1
Asst Opns Chief	GySgt	2537		1
Trng NCO	Sgt	2531		1
Opns Clerk	Pvt/LCpl	2531		2
Property NCO	Cpl	3051		1
Driver	Pvt/LCpl	3531		1
	SECTION TOTAL		2	8
Communications Center Platoon				
Platoon Headquarters				
Platoon Commander	Capt	2502	1	
Comm Ctr Chief	MSgt	2591		1
Communication Watch Officer	Lt	2502	4	
Sat Comm Team Leader	SSgt	2864		1
Sat Comm Supervisor	Sgt	2833		1
Sat Comm Operator	Cpl	2531		1
Sat Comm Operator	LCpl	2531		1
Sat Comm Operator	Cpl	2542		1
Sat Comm Operator	LCpl	2542		1
Communications Clerk	Pvt/LCpl	2542		1
Message Center Chief	GySgt	2549		1
Message Center Supervisor	SSgt	2549		4
Comm Ctr Man	Sgt	2542		6
Comm Ctr Man	Cpl	2542		6
Comm Ctr Opr	Pvt/LCpl	2542		24
Messenger	Pvt/LCpl	2542		2
	SECTION TOTAL		5	51
Radio Platoon				
Platoon Commander	Capt	2502	1	
Radio Chief	MSgt	2591		1
Radio Supervisor	SSgt	2537		4
HF Radio Supervisor	Sgt	2534		1
HF Radio Operator	Cpl	2534		2
HF Radio Operator	Pvt/LCpl	2534		6
Field Radio Operators	Sgt	2531		4
Field Radio Operators	Cpl	2531		8
Field Radio Operators	Pvt/LCpl	2531		26
	SECTION TOTAL		1	52

MAB Communication Company
Communication Battalion FMF (each) (Cont'd)

TITLE	RANK	MOS	PROPOSED	
Wire/Multichannel Plt				
Platoon Commander	Capt	2502	1	
Wire/Mux Chief	MSgt	2691		1
Wire Section Leader	WO	2810	1	
Wire Chief	SSgt	2513		1
Wireman	Sgt	2512		2
Wireman	Cpl	2512		8
Wireman	Pvt/LCpl	2512		22
Multichannel Sect Ldr	Lt	2502	1	
Multichannel Chief	SSgt	2537		1
Multichannel Supervisor	Sgt	2531		4
Multichannel Team Chief	Cpl	2531		8
Multichannel Operators	Pvt/LCpl	2531		14
	SECTION TOTAL		3	65
NGF Section Leader	SSgt	0861		1
Radio Supervisor	Cpl	2531		2
Field Radio Operator	Pvt/LCpl	2531		5
Wireman	Pvt/LCpl	2512		1
	SECTION TOTAL		0	9
	ORGANIZATION TOTALS (Each Company)		11	185

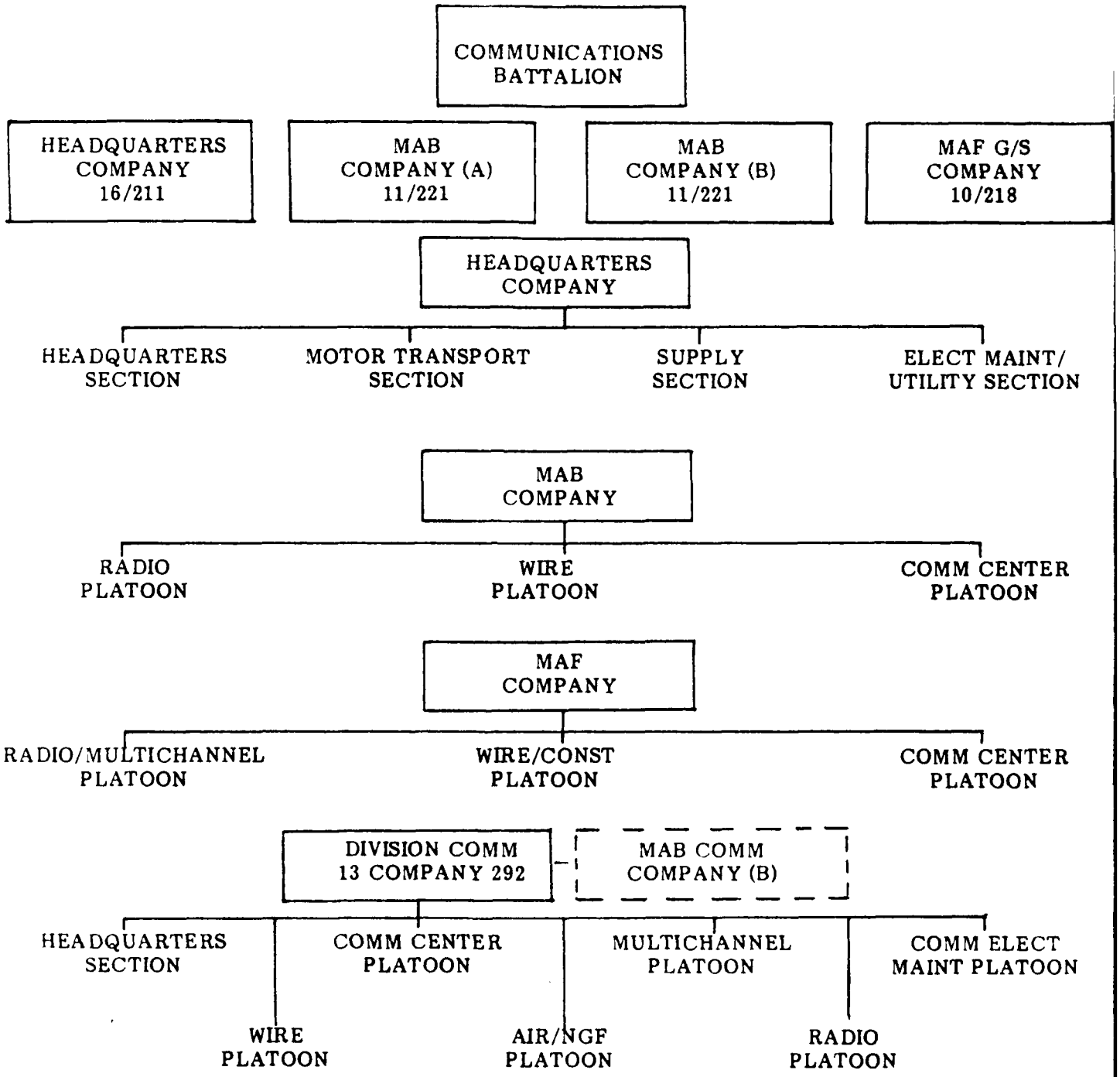
Restructured Low Density Communication Equipment Allocation Communication Battalion

Alpha		Bravo		H & S	
1	AN/TGC-37	1	AN/TGC-37	1	AN/TTC-38
5	AN/TSC-15	5	AN/TSC-15	1	AN/TSQ-84
1	AN/TSC-96	1	AN/TSC-96	2	AN/TYC-5A
1	AN/GRC-160	1	AN/GRC-160	1	AN/TSC-96
4	AN/MRC-110	4	AN/MRC-110	1	AN/GRC-160
15	AN/MRC-138	15	AN/MRC-138	8	AN/TRC-97E
12	AN/MRC-135	12	AN/MRC-135		
8	AN/PRC-104	8	AN/PRC-104		
4	AN/PRC-75	4	AN/PRC-75		

Present Low Density Communications Equipment Allocation Communication Battalion

Long Lines Company		Communication Company		Communication Support Company		Headquarters Company	
8	AN/TRC-97E	2	AN/TGC-37	1	AN/TTC-38	1	AN/GRC-160
22	AN/MRC-135	5	AN/TSC-15	6	AN/TSC-15		
		1	AN/TSQ-84	1	AN/TSQ-84		
		2	AN/TYC-5A	3	AN/MRC-110		
		3	AN/TSC-96	11	AN/PRC-104		
		4	AN/MRC-110	2	AN/PRC-75		
		17	AN/MRC-138				
		4	AN/PRC-104				
		4	AN/PRC-75				

OPTION III


COMMUNICATIONS BATTALION
HEADQUARTERS COMPANY 16/211
MAB COMPANY (A) 11/221
MAB COMPANY (B) 11/221
MAF G/S COMPANY 10/218
HEADQUARTERS COMPANY
HEADQUARTERS SECTION
MOTOR TRANSPORT SECTION
SUPPLY SECTION
ELECT MAINT/ UTILITY SECTION
MAB COMPANY
RADIO PLATOON
WIRE PLATOON
COMM CENTER PLATOON
MAF COMPANY
RADIO/MULTICHANNEL PLATOON
WIRE/CONST PLATOON
COMM CENTER PLATOON
DIVISION COMM 13 COMPANY 292
MAB COMM COMPANY (B)
HEADQUARTERS SECTION
COMM CENTER PLATOON
MULTICHANNEL PLATOON
COMM ELECT MAINT PLATOON
WIRE PLATOON
AIR/NGF PLATOON
RADIO PLATOON

OPTION III
(Two MAB Companies, One MAF Company, and Headquarters Company)

This option proposes two communication companies each specifically tasked to support a MAB headquarters. In this option one communication company would be subordinate to communication battalion while the other communication company would consist of what is currently division communication company and could remain under the control of the division until required. A third company would be tasked to provide unique support for the MAB headquarters or full support for a MAF operation. This third company would be comprised of elements of what is now long lines company and communication support company.

By utilizing present resources (communication battalion and division communication company), this option would provide the least expensive means of supporting all MAGTF deployments. Establishment of a fixed T/O and T/E would discourage the current ad hoc use of communication personnel and equipment. Communication unit commanders' control over assets in their commands would be enhanced.

Tasking the division communication company to support a MAB would optimize the use of current assets. Any assets contained within division communication company not consistent with those assets required by the MAB communication company would remain within the division. Low density, large, cumbersome assets (AN/TGC-37, AN/TTC-38, AN/TYC- 5) would be assigned to the MAF company. An increase in reliability and interoperability of the total communication network assets would result from this shared mission tasking.

Unfortunately, this structure, while eliminating the need to provide ad hoc communications, would also tend to deny the flexibility afforded by today's structure. Because of the complex variations of possible theaters of conflict throughout the world, present flexibility of communications should be maintained or improved.

Having one communication company under one command and another under a separate command would, in many instances, require crossing of command lines for MAGTF deployments. In the event a second MAB deployment were pending, division communication company would then fall under control of the FMF, essentially stripping the division commander of most of his headquarters communication assets.

This option commits division communication company to an additional mission of being able to support a MAGTF deployment in the event two MABs are deployed. Any residual division communication resources would have difficulty supporting a tactical division headquarters should that be necessary. Additionally, the concept that the Division Communication Company could be returned to Division control subsequent to MAGTF combat operations rests on the presumption of no enemy action; a hazardous presumption at best. Furthermore, the adhoc formation of a communication unit from residual communication elements risks fielding an untrained, uncoordinated combat support unit. Due to the complexity of this structure, close coordination between the communication battalion and the division communication company especially in the area of command responsibility, is essential to its success. This option requires the support of one company headquarters, an overall reduction of one company headquarters.

Mission and tasks of option III are as listed in option IV. Communication Company T/O 1843V dated 19 October 1982 follows.

COMMCO HQBN MARDIV FMF T/O

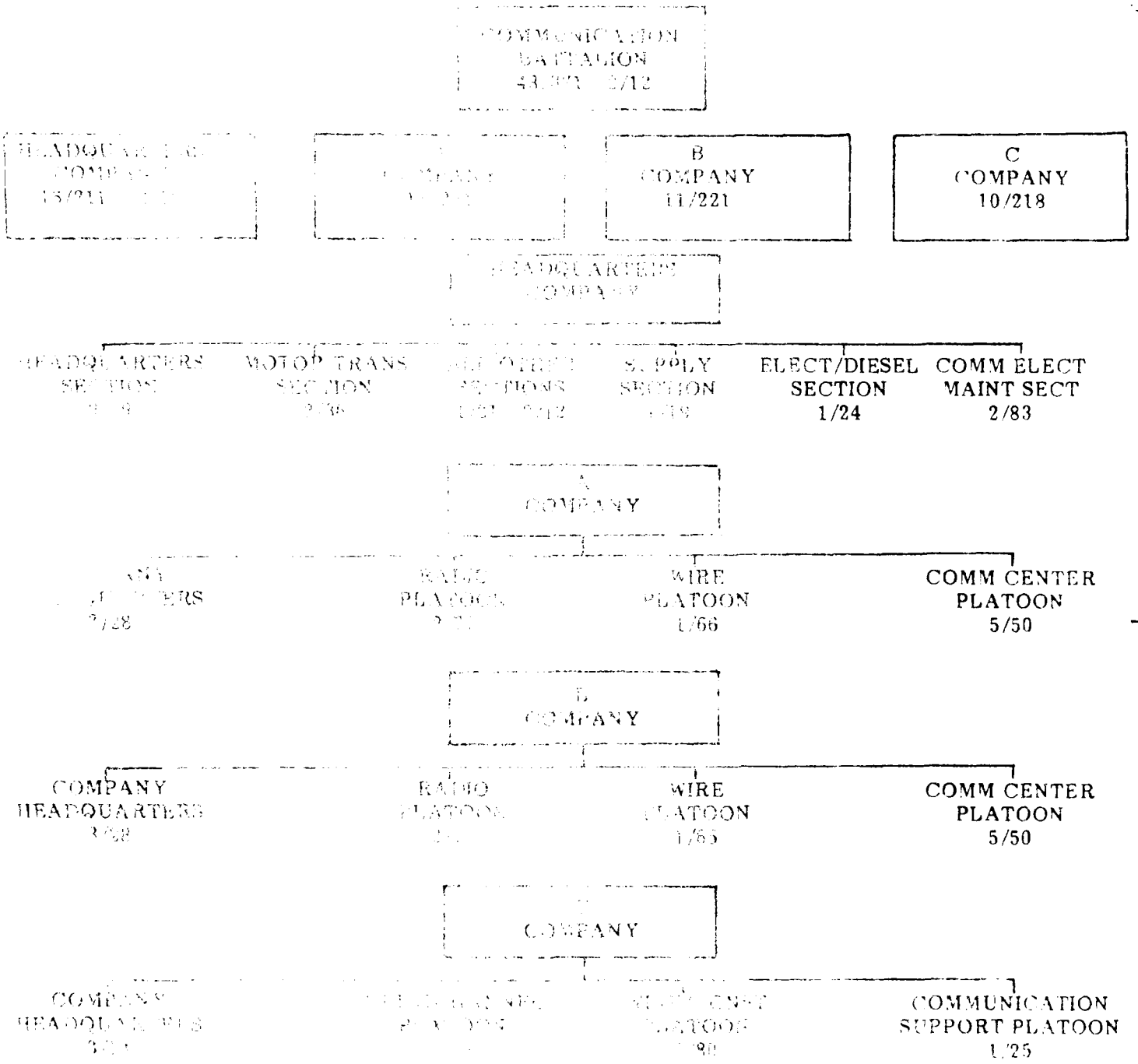
Line No.	MOS	E9	E8	COL E7	LTCOL E6	MAJ E5	CAPT E4	LT E3	WO E2/1	Line Total
	Aviators									
1	7207						1			1
	TOTAL						1			1
2	2502					1	5	3		9
3	2802						1			1
4	2805								1	1
5	2810								1	1
	TOTAL					1	6	3	2	12
	TOTAL					1	7	3	2	13
	MARINE ENLISTED									
6	0411				1			1		2
7	0431				1					1
8	0861		1			1	3	3	3	12
9	1141						3			3
10	1142					1	1	2		4
11	1161						1			1
12	1341					1	1	2		4
13	2512						3	9	14	26
14	2513						3			3
15	2519			1	4	3				8
16	2531					16	23	38	20	97
17	2534					1	2	6	6	15
18	2537			2	3					5
19	2542					4	7	33		44
20	2549			1	6	4				11
21	2591		4							4
22	2811					1	2			3
23	2813							2		2
24	2818					1				1
25	2819				1					1
26	2822				1	1				2

COMMCO HQBN MARDIV FMF T/O (Cont'd)

Line No.	MOS	E9	E8	COL E7	LTCOL E6	MAJ E5	CAPT E4	LT E3	WO E2/1	Line Total
	Aviators									
27	2823			1	1					2
28	2827			1		1	1			3
29	2828							1		1
30	2829				2	2				4
31	2841						6			6
32	2861		1	1	3	2				7
33	2881				1		3			4
34	3043					1	1	1	1	4
35	3051					2				2
36	3521					1	2	3	2	8
37	3529			1						1
38	9999		1							1
	TOTAL		7	8	24	43	62	101	47	292
MARINE FLEET ASSISTANCE/CONTINGENCY										
MARINE OFFICERS										
39	7208							1		1
	TOTAL							1		1
MARINE ENLISTED										
40	2512								6	6
41	2531								4	4
42	3521								6	6
	TOTAL								16	16
	TOTAL							1	16	17

PRESENT COMM BN		42/720
PRESENT DIV COMM CO		13/292
TOTAL		55/1012
PROPOSED COMM BN		48/871
REMAINING IN COMM CO DIV		7/141
REALLOCATION CONSIDERATION		
DIVISION UNITS	86	
WING COMM SQD	18	
FSSG COMM CO	5	
FSSG LDN SPT BN	11	120
TOTAL COMMUNICATORS PER MAF		7/261

FOR OTHER STRUCTURE REORGANIZATIONS SHOULD THE MARINE CORPS REORGANIZE AS MABS VS WINGS AND DIVISIONS


COMMUNICATION BATTALION
B COMPANY 11/221
C COMPANY 10/218
MOTOR TRANS SECTION
ELECT/DIESEL SECTION 1/24
COMM ELECT MAINT SECT 2/83
COMPANY
RADIO PLATOON
WIRE PLATOON 1/66
COMM CENTER PLATOON 5/50
COMPANY
RADIO
WIRE
COMM CENTER PLATOON 5/50
COMPANY
COMMUNICATION SUPPORT PLATOON 1/25

OPTION IV
(A, B, C and Headquarters Companies)

In this option the communication battalion headquarters company internal structure would remain as it is presently. Selected headquarters company elements would receive personnel increases to maintain and repair additional electronic and electrical items. Two communication companies, designated company A and company B, each similar to the present communication company would be formed. Either company would be capable of independently supporting a MAB sized MAGTF with minimal augmentation from company C, currently designated long lines company. Resources from the present communication support company would be divided between companies A and B. These resources and other gains from compensatory reductions would give companies A and B the capability to provide continuous communications support during MAGTF command post displacements.

Low density equipment on the present communication company T/E, (i.e., AN/TYC-5, AN/TTC-38, AN/TGC-37, AN/TSQ-84), would be reassigned to general support company C. This reassignment of assets would not only reduce the lift requirement of companies A and B, but also enhance efficiency of equipment employment. Company C would provide augmentation when required to support one or both communication companies and would provide the necessary heavy equipment and long haul communication equipment to support any MAGTF sized deployment. This option provides the capability, which otherwise does not exist, to support simultaneous MAGTF deployments within each MAF. Without the additional assets that could be provided through reorganization a single MAF increase of six officers and 151 enlisted is required. A total Marine Corps increase, over a three year period would be eighteen officers and 453 enlisted Marines.

Assigning each communication company the primary mission of supporting a MAB sized MAGTF would facilitate training and the establishment of fixed T/Os and T/Es. Elimination of the interdependence of companies within communication battalion would promote command integrity, lessen confusion and facilitate rapid response. The adoption of a mirror company communication structure would further allow unit overseas rotation, resulting in a more cohesive unit, retention of corporate knowledge and higher morale. Simultaneous support of two separately deployed MABs would be realistically accomplished without need for depleting all force assets or ad hoc formation of communication units. Additionally this structure would insure the availability of highly trained and stabilized communication companies organized and equipped for combat communications missions in support of both MPS and Amphibious Brigades, providing for the first time a true task organization to MAGTF communication operations.

Additional personnel and equipment would be needed to field the second communication company. From current communication battalion assets, form A company and reorganize Headquarters and company C elements. Form B company out of the remainder of Communication Support Company and those reductions identified with the FMF structure, i.e., division, wing, FSSG. Since both companies would be organized specifically to support a MAB, additional attachments from company C would be required for either to support a MAF headquarters. This structure is realistic. Ninety eight percent of the required personnel could come from reorganization or compensatory reductions of current assets (chart pages 49 and 50).

With realignment of personnel a minimal single MAF structure increase of six officers and eleven enlisted Marines is required.

COMMUNICATION BATTALION

STRENGTH

CURRENT

42/720

HEADQUARTERS COMPANY	COMMUNICATION COMPANY	COMM SUPPORT COMPANY	LONG LINES COMPANY
14/188	12/191	7/142	9/199

PROPOSED

48/871

HEADQUARTERS COMPANY	A COMPANY	B COMPANY	C COMPANY
16/211	11/221	11/221	10/218

PERSONNEL SHORTFALL

(CURRENT vs PROPOSED)

6/151

PERSONNEL REALLOCATION

UNIT		AVAILABLE	MOS	REMARKS
INFANTRY BATTALION	1 (ea)	/ 9	2818	Assigned as teletype
	1 (ea)	/ 9	2549	associated personnel.
	3 (ea)	/27	2542	Unit will not receive TTY equipment in the future.
INFANTRY REGIMENT	2 (ea)	/ 3	2818	Unit will only be required
	1 (ea)	/ 0	2549	to maintain TTY to higher or
	12 (ea)	/21	2542	adjacent units. (5 AN/UGC-74's each regiment.)
COMBAT ENGINEER BATTALION	7	/ 3	2542	Will receive 2 AN/UGC-74 Four man team is adequate.
RECON BATTALION	1	/ 1	2818	(Same as above.)
	4	/ 0	2542	
LANDING SUPPORT	1	/ 1	2818	(Same as above.)
BATTALION	2	/ 2	2549	
	12	/ 8	2542	
TRACKED VEHICLES OR	1	/ 1	2818	Unit will not receive
AMPHIBIOUS ASSAULT BN	6	/ 6	2542	UGC-74
TANK BATTALION	1	/ 1	2818	(Same as above.)
	5	/ 5	2542	
TOTAL (Teletype MOS)		/97		Available to staff B Company.
COMMUNICATION CENTER CRYPTOGRAPHER WING; DIVISION; FSSG		12	2549/ 2542	With all encryption being accomplished by on line automatic equipment, the requirement for a separate cryptographic section no longer exists.
AN/TSC-15 OPERATORS				
WING COMM SQD		16	2534	Equipment will be discon-
DIV COMM CO		15	2534	tinued without replacement. Multichannel link terminals between MAGTF headquarters and its elements will be provided and manned by Marines from the MAGTF communication element.
TOTAL PERSONNEL		140		

Reference Source: T/O Listing Dated 19 October 1982

Option IV Mission Statements and T/Os for the Communication Battalion and its four subordinate headquarters are presented next. A significant change in the missions and tasks is the total M/C link responsibility of the MAGTF communication element.

MISSION AND TASKS STATEMENT

A. Communication Battalion. The battalion operates in general support of the MAGTF. The headquarters will normally deploy in proximity of the supported MAF headquarters. When tasked to support a MAB, the battalion will provide a communication company and necessary attachments to support that headquarters.

1. Primary Mission. Provide communication support to:

a. A MAF, or MAB, or MAU headquarters

b. A MAF and a MAB headquarters

c. Two MAB headquarters, or

d. Any combination of MAU, MAB headquarters, simultaneously deployed.

2. Major Tasks

a. Provide communication support for all MAGTF headquarters and multichannel radio or wire links between MAGTF headquarters and subordinate elements.

b. Provide attachments as required for employed communication companies to adequately support the MAGTF headquarters in its assigned area of operation.

3. Concept of Organization. The battalion consists of four companies. Of these four companies are two operational communication companies, (A and B), a general support company (C), and a headquarters company.

4. Concept of Employment. Upon notification and prior to deployment of a MAB, a communication company will be assigned to support the deployment. Determination of unique requirements will dictate additional support attachments from Company C. The communication battalion can support two separate MAB deployments simultaneously.

Operational control of the communication company and its attachments or of any task organized elements will be exercised through the communication-electronics office of the supported headquarters. Administrative control will either be retained by communication battalion or delegated to the supported unit headquarters depending on the length of commitment.

B. Company A or B

1. Primary Mission. To install, operate and maintain the communications system for a Marine Amphibious Brigade (MAB) headquarters or, with augmentation, a Marine Amphibious Force (MAF) Headquarters.

2. **Major Tasks**

a. Install, operate and maintain communication center facilities for the supported headquarters.

b. Maintain radio stations on command and control, administrative, logistical and other radio nets as required.

c. Install, operate and maintain switchboard and telephone services for the supported headquarters.

d. Install, operate and maintain the interface between the multichannel/land line system in the supported headquarters communications system.

e. Provide communication support for the Naval Gunfire Officer, the Air Officer, and the supported headquarter's Fire Support Coordination Center.

f. Provide the communication services and equipment necessary for the echeloned displacement of the supported headquarters command post.

g. Install, operate and maintain an entry into the DCS via NTS. With appropriate augmentation, be prepared to provide direct entry into DCS.

h. Provide communication teams to joint or allied headquarters.

3. **Concept of Organization**. Companies A and B are organized into functional groupings to provide for:

a. A company headquarters which directs and coordinates the actions of the entire company.

b. Three platoons per company organized along functional lines tailored to support the primary mission and task listed above.

4. **Concept of Employment**. Each Company is capable of deploying as a separate unit in support of a MAB headquarters. With augmentation either company is capable of providing support for a MAF headquarters.

C. **Company C**

1. **Primary Mission**. Company C will provide attachments to deploying communication companies. Such attachments will install, maintain and operate all multichannel radio and wire communication link terminals between the MAGTF headquarters and subordinate elements. Senior and adjacent headquarters will also be supported when required.

2. **Major Tasks**

a. Install, maintain and operate multichannel radio and wire links between the MAGTF headquarters and:

(1) Air combat element

(2) Ground combat element

(3) Combat service support element

(4) Headquarters, amphibious task force commander

(5) Other force combat support and combat support headquarters as required

(6) Other service headquarters/external agencies as required

b. Design, construct, operate and maintain those facilities necessary for support of the systems listed above with special emphasis on land line construction capabilities.

c. Assist the communication company in the installation and maintenance of the interface between multichannel/land line system and the internal MAF headquarters communication system.

3. Concept of Organization. Company C is organized into functional groupings to provide for:

a. A company headquarters which directs and coordinates the actions of the entire company.

b. Three platoons organized along functional lines and tailored to support the primary mission.

4. Concept of Employment. Company C operates under the direct control of the communication battalion. During MAGTF deployment, a unit from company C will be task organized to provide multichannel/land line systems best suited to the known operational environment.

D. Headquarters Company

1. Primary Mission. Provide command, administration, logistics, maintenance, and general support for the communication battalion.

2. Major Tasks

a. Provide the command and staff elements for command and control of the battalion.

b. Provide messing, medical service and local security for the battalion.

c. Provide administrative support for the battalion and subordinate elements as required.

d. Perform supply functions for the battalion to include stockage and issue of repair parts for maintenance activities.

e. Provide transportation for the company and battalion headquarters; provide limited transportation support to operating companies as needed.

f. Provide primary electrical power and service for the battalion and teams supporting companies.

g. Provide communication-electronics equipment maintenance support for the battalion and teams to the operating companies.

3. **Concept of Organization.** The company is organized into functional groupings to provide for:

a. A battalion headquarters for command direction and coordination of actions of the entire battalion.

b. A company headquarters for direction and coordination of the company.

c. Various sections in support of the primary mission and major tasks outlined earlier.

4. **Concept of Employment.** The company collocates with the battalion headquarters and operates intact in support of the battalion when deployed. When required, the various sections can be task organized to provide augmentation support to deployed elements of the battalion.

TABLE OF ORGANIZATION

Recommended T/O for Companies A and B, Communications Battalion, FMF:

Headquarters Platoon

Title	Rank	MOS	Proposed Total	
C. O.	Maj	2502	1	
X. O.	Capt	2502	1	
1st Sgt	1st Sgt	9999		1
Property NCO	Cpl	3051		1
Co Clerk/Driver	LCpl	2531		1
Ops O	1st Lt	2502	1	
Ops Ch	MSgt	2591		1
Comcon NCOIC	GySgt	2591		1
Comcon NCO	SSgt	2537/19/49		3
Ops Clerk	Cpl	2531		1
Ops Clerk	LCpl	2531		3
NCOIC	SSgt	3531		1
Asst NCOIC	Sgt	3531		1
Driver	Cpl	3531		1
Driver	LCpl	3531		4
Driver	Pvt	3531	_	9
		Total	3	28

Communication Center Platoon

Title	Rank	MOS	Proposed Total	
OIC/Plt Cdr	Capt	2502	1	
Asst Plt Cdr	1st Lt	2502	1	
Watch Officer	Lt	2502	3	
Commcen Chief	MSgt	2591		1
Ops Chief	GySgt	2549		1
Traffic Analyst	Sgt	2542		2
File Clerk	Cpl	2542		2
Watch Chief	SSgt	2549		4
In-Router	Cpl	2542		4
Svc Clerk	Sgt	2542		4
Dist Clerk	LCpl	2542		4
Dup Clerk	LCpl	2542		4
TTY Chief	Sgt	2542		4
TTY Opr	Cpl	2542		8
[illegible]	LCpl	2542	_	12
		Totals	5	50

TABLE OF ORGANIZATION (Cont'd)

Wire Platoon

Title	Rank	MOS	Proposed Total	
Plt Cmdr	WO	2810	1	
Plt Sgt	MSgt	2591		1
Asst Plt Sgt	GySgt	2519		1
Main Frame Section				
Sect Chief	SSgt	2519		1
Frame Tech	Sgt	2512		4
Frame Tech	Cpl-LCpl	2512		8
Switchboard Section				
Sect Chief	SSgt	2519		1
Watch Chief	Sgt	2512		4
Swbd Opr	Cpl	2512		4
Swbd Opr	LCpl	2512		4
Cable Section				
Sect Chief	SSgt	2519		1
Team Chief	Sgt	2513		4
Cable	Cpl	2512		4
Cable	LCpl-Pfc	2512		8
Cable Splicer	Sgt	2513		1
Cable Splicer	Cpl	2513		2
Telephone Section				
Sect Chief	SSgt	2519		1
Asst Sect Chief	Sgt	2512		1
Installation Team	Cpl	2512		4
Installation Team	LCpl	2512		4
Installation Team	Pfc	2512		8
		Totals	1	66

Radio Platoon

Title	Rank	MOS	Proposed Total	
Plt Cmdr	Capt	2502	1	
Asst Plt Cmdr	WO	2502	1	
Radio Section				
Radio Chief	MSgt	2591		1
Radio Supv/Sect Ldr	GySgt	2537		1
Radio Supv	SSgt	2537		3
Radio Supv Asst	Sgt	2531		8
TACSAT Radio				

TABLE OF ORGANIZATION (Cont'd)

Title	Rank	MOS		Proposed Total
Supv Asst	Sgt	2542		1
Field Radio Oper	Cpl	2531		12
TACSAT Repairer	Cpl	2833		4
Field Radio Oper	LCpl	2531		12
TACSAT Oper	LCpl	2542		5
Field Radio Oper	Pvt	2531		9
TACSAT Oper	Pvt	2542		5
Force NGF Section				
NGF Chief/Sec Ldr	GySgt	0861		1
Radio Chief	Cpl	2531		1
Field Radio Oper	LCpl	2531		3
Field Radio Oper	Pvt	2531		3
Radio Telegraph Oper	Pvt	2531		2
Force TACP				
Radio Chief	Cpl	2531		1
Field Radio Oper	LCpl	2531		1
Radio Telegraph Oper	LCpl	2531		1
Field Radio Oper	Pvt	2531		1
Radio Telegraph Oper	Pvt	2531		2
Platoon Total			2	77

Long Lines Company as shown in T/O 4873M, printout dated 19 October 1982, is modified with the exception of the SHF Section and Construction Platoon which remain. Forming a communication support platoon in Company C allows task organizing low density equipment teams to be available to either Company A or B for unique missions. Furthermore, by relocating the heavy, cumbersome, one-of-a-kind equipments, the lift requirement for the MAB communication element is reduced substantially. A communication support platoon will be located in Company C, the present Long Lines Company. This platoon will consist of the following personnel and equipment:

Communication Support Platoon (Company C)

Title	Rank	MOS	Total
Plt Cmdr	WO	2810	1
Team Chief	GySgt	2519	1

AN/TTC 38 Team (1) (Personnel & Equipment from Comm Co T/O & T/E)

Team Ldr	SSgt	2814	1
Team Member	Sgt/Cpl	2814	3

AN/TYC-5 Team (1) (Personnel & Equipment from Comm Co T/O & T/E)

TABLE OF ORGANIZATION (Cont'd)

Title	Rank	MOS		Total
Team Ldr	SSgt	2549		1
Team Member	Sgt/Cpl	2542		6

AN/TGC 37 Team (1) (Personnel & Equipment from Comm Co T/O & T/E)

Team Ldr	SSgt	2549		1
Team Member	Sgt	2542		3
Team Member	Cpl/LCpl	2542		9
		Total	1	25

The VHF section of multichannel platoon, Company C will be reorganized into eight (8) terminal teams to support the missions of A and B companies as required. This realignment will enhance efficiency and increase communication reliability by permitting integrated training of teams assigned to specific total link missions. An excess of six (6) 2531's presently assigned will be reassigned to fill T/O requirements in Company B.

VHF Section

Title	Rank	Mos	Decrease	New Total	
Section Ldr	WO	2502	0	1	
Section Chief	SSgt	2537	0	1	
Fld Radio Oper	Sgt	2531	0	1	
Fld Radio Oper	Cpl	2531	0	2	
Fld Radio Oper	LCpl-Pvt	2531	6	6	
Eight (8) Terminal Teams/Each					
Team Chief	Sgt	2531		1	(8)
Radio Oper	Cpl	2531		2	(16)
Radio Oper	LCpl/Pvt	2531		2	(16)
		Total	6 *	1 50	

*Available for reassignment within the proposed structure.

Addition of a second MAGTF communication company will require increases in several headquarters company sections. Using T/O 4886M printout dated 19 October 1982 as a base we added personnel to support a three team maintenance unit, should the battalion commander choose to employ his assets in that manner. Two of the three sections are specifically organized to support the mission of the A and B companies. The third specifically supports the maintenance requirements of company C and the remainder of the battalion. Increases in numbers of other support personnel (i.e., auto mechanics, cooks, medical technicians) have not been addressed. Experience with the new battalion structure during the test period will provide a basis for a more valid future adjustment.

TABLE OF ORGANIZATION (Cont'd)

The proposed structure changes the following units within headquarters company:

Communication Electronics Maintenance Section

Radio Unit

Title	Rank	Mos	Present T/O	Increase	Proposed Total	
Unit Ldr	MSgt	2861	1	0	1	
Tm Chief	GySgt	2861	1	2	3	(Radio Tech)
Watch Chief	SSgt	2861	3	1	4	(Radio Tech)
Team Members	Sgt	2861	2	3	5	
Team Members	Cpl	2841	4	1	5	
Team Members	LCpl	2841	6	1	7	
		Total	17	8	25	

(Does not include M/W radio techs)
(Changes are in radio tech/repair MOS's 2861 & 2841 only. All other MOS's remain the same)

Communication Center Unit

Title	Rank	MOS	Present T/O	Increase	Proposed Total
Team Chief	GySgt	2819	2	1	3
Watch Chief	SSgt	2818/81	3	0	3
Team Member	Sgt/Cpl	2818	4	1	5
Team Member	Sgt/Cpl	2819	2	2	4
Team Member	Sgt/Cpl	2828	1	2	3
Team Member	Sgt/Cpl	2881	3	1	4
		Total	15	7	22

(Changes are in 2818/19/28/81 - All other MOS's remain the same)

Telephone Unit

Title	Rank	MOS	Present T/O	Increase	Proposed Total
Unit Ldr	GySgt	2811	0	1	1
Team Chief	SSgt	2811	1	1	2
Team Members	Sgt	2811	2	1	3
Team Members	Cpl	2811	1	0	1
		Total	4	3	7

TABLE OF ORGANIZATION (Cont'd)

(Changes are in MOS 2811 only - All other MOS's remain the same)

Technical Control Unit

Title	Rank	MOS	Present T/O	Increase	Total
Tech Cont O	WO	2810	0	1	1

Changes in the Electrical/Diesel Repair Section follow:

Title	Rank	MOS	Present T/O	Increase	Total
Util O	WO	1310	0	1	1
Util Chief	GySgt	1169	1	0	1
	SSgt	1142	1	1	2
	Sgt/Cpl	1142	3	0	3
	LCpl/Pvt	1142	4	0	4
	Cpl	1141	1	1	2
	LCpl/Pvt	1141	3	0	3
	Sgt/Cpl	1341	2	2	4
	LCpl/Pvt	1341	4	1 1	5
	Total		0 19	1 5	1 24

Total Increase in headquarters company from T/O checklist dated 19 October 1982, 2/23.

RESTRUCTURED COMMUNICATION BATTALION
Option III and IV

MOS	A	B	C	HDQ	TOTAL		Personnel Difference By MOS From Present Structure	
						Present Structure	IV	III
0170				1	1	1		
0180				1	1	1		
0402				1	1	1		
1310				1	1	0	1	1
2502	10	10	7	7	34	30	4	
2802			1	1	2	2		
2805					0	1	(-1)	(-1)
2810	1	1	2	1	5	3	2	
3002				1	1	1		
[illegible]				1	1	1		
3510				1	1	1		
	11	11	10	16	48	42	6	0
0121				4	4	4		
0131				3	3	3		
0151				8	8	8		
0193				1	1	1		
0441				3	3	3		
0861	1	1			2	1	1	
1141				5	5	4	1	
1142				9	9	8	1	
1169				1	1	1		
1341				9	9	6	3	
1345		1			1	1		
[illegible]			1	2	3	3		
2111				2	2	2		
[illegible]	53	53	2	3	111	87	24	
[illegible]	7	7	48		[illegible]	94	8	1

RESTRUCTURED COMMUNICATION BATTALION (Cont'd)
Option III and IV

MOS	A	B	C	HDQ	TOTAL	Present Structure	Personnel Difference By MOS From Present Structure	IVIII
2519	6	6	6		18	8	10	2
2531	61	61	65	1	188	151	37	
2532	0	0	17	0	17	17		
2534	0	0	0	0	0	18	(-18)	
2537	5	5	4	1	15	8	7	2
2542	55	55	18	1	129	77	52	8
2549	6	6	2	0	14	20	(-6)	
2591	5	5	1	2	13	7	6	2
2811	0	0	0	8	8	8		
2813	0	0	10	0	10	13	(-3)	
2814	0	0	4	0	4	4		
2818	0	0	0	6	6	5	1	
2819	0	0	0	6	6	3	3	2
2822	0	0	0	4	4	4		
2823	0	0	0	4	4	4		
2827	0	0	0	4	4	4		
2828	0	0	0	3	3	1	2	1
2829	0	0	0	5	5	5		
2831	0	0	8	4	12	12		
2833	4	4	4	1	13	9	4	4
2841	0	0	0	12	12	10	2	
2861	0	0	0	15	15	9	6	
2864	0	0	2	2	4	4		
2881	0	0	0	7	7	6	1	
2891	0	0	0	1	1	1		
3043	0	0	0	10	10	10		
3051	1	1	2	7	11	11		

RESTRUCTURED COMMUNICATION BATTALION (Cont'd)
Option III and IV

MOS	A	B	C	HDQ	TOTAL	Present Structure	Personnel Difference By MOS From Present Structure IV	III
3311	0	0	0	3	3	3		
3381	0	0	0	14	14	14		
3521	0	0	0	21	21	21		
3523	0	0	0	1	1	1		
3529	0	0	0	3	3	3		
3531	16	16	22	9	63	54	9	9
3537				1	1	1		
4421				1	1	1		
5711				1	1	1		
8421				1	1	1		
9999	1	1	1	2	5	5		
	11/221	11/221	10/218	16/211	48/871	42/720	151	33

RECAPITUATION BY MOS OPTION IV
MAB COMMUNICATIONS COMPANY
COMMUNICATIONS BATTALION

MOS	E9	E8	E7	E6	04 E5	03 E4	01/02 E3	WO E1/2	TOTAL A	TOTAL B	Difference From Present Comm Company
2502					1	3	5	1	10	10	(-1)
2810								1	1	1	
0861			1						1	1	
2810									1	1	
0861			1						1	1	
2512					9		44		53	53	17
2513					5	2			7	7	1
2519			1	5					6	6	5
2531					8	15	21	17	61	61	14
2537			1	4					5	5	3
2542					11	14	25	5	55	55	1
2591		4	1						5	5	1
2811											(-2)
2813											(-3)
2814											(-4)
2833						4			4	4	
3051						1			1	1	
3531				1	1	1	4	9	16	16	1
9999	—	1	—	—	—	—	—	—	1	1	—
		5	5	15	1/34	3/37	5/94	2/31	11/221	11/221	

GENERAL SUPPORT COMPANY (COMPANY C) OPTION IV
COMMUNICATION BATTALION

MOS	E9	E8	E7	E6	04 E5	03 E4	02/01 E3	WO E2/1	TOTAL	Change From Present Long Lines
2502					1	2	2	2	7	
2802							1		1	
2810								2	2	1
1345							1		1	
1411							1		1	
2512								2	2	
2513					8	8	16	16	48	
2519			2	4					6	1
2531					14	23	27	1	65	(6)
2532					8	8	1		17	
2537			1	3					4	
2542					6	8	4		18	18
2549				2					2	2
2591		1							1	
2813				1	2	2	2	3	10	
2814				1	1	2			4	4
2831						8			8	
2833					4				4	
2864			1	1					2	
3051						1	1		2	
3531					1	3	6	12	22	
9999		1							1	
									10 218	+1/19

HQCO COMM BN
RECAPITUALTION BY MOS

MOS	E9	E8	E7	05 E6	04 E5	03 E4	01/2 E3	WO E2/1	TOTAL	Change From Present HQ CO
0170								1	1	
0180							1		1	
0402					1				1	
1310								1	1	1
2502				1	2	1	3		7	
2802						1			1	
2810								1	1	1
3002						1			1	
3502						1			1	
3510								1	1	
0121					1	1	1	1	4	
0131					1		1	1	3	
0151						2	2	4	8	
0193			1						1	
0441					2		1		3	
1141						2	1	2	5	1
1142				2	1	2	2	2	9	1
1169			1						1	
1341					2	2	2	3	9	3
1411							2		2	
2111						1	1		2	
2512							1	2	3	
2531						1			1	
2537				1					1	
2542								1	1	
2591	1		1						2	
2811			1	2	3	1	1		8	3
2818				1	5				6	1
2819			2		2	2			6	3
2822			1	1	2				4	

HQCO COMM BN
RECAPITUALTION BY MOS (Cont'd)

MOS	E9	E8	E7	05 E6	04 E5	03 E4	01/2 E3	WO E2/1	TOTAL	Change From Present HQ CO
2823		1	1	1	1				4	
2827				1	1	2			4	
2828					1	2			3	2
2829		1		1	1	2			5	
2831					2	1	1		4	
2833					1				1	
2841						5	7		12	12
2861		1	4	5	5				15	6
2864				2					2	
2881			1	2	1	3			7	1
2891	1								1	
3043			1	1	1	3	2	2	10	
3051				1	1	2		3	7	
3311						3			3	
3381			1		3	4	4	2	14	
3521					3	5	9	4	21	
3523							1			
3529		1	1	1					3	
3531						2	3	4	9	
3537				1					1	
4421						1			1	
5711				1					1	
8421				1					1	
9999	1	1							2	
									16 211	+2/23

Navy 2/12 same as T/O 4886M

MEASURES OF EFFECTIVENESS

The four effectiveness criteria used to evaluate the optional structures are:

Flexibility	Capable of diverse deployment options within MAGTF operational requirments.
Supportability	Capable of self-administration and organic supply functions.
Simplicity	Unity of command; control of communication assets necessary to perform specific missions and tasks.
Cost	Relative cost of alternative structures based on changes in personnel and equipment.

Without any quantitative data from which to make objective comparisons, we assigned to each measure of effectiveness arbitrary qualities of comparison. Each proposed structure had either positive, minimal, or negative impact on each measure of effectiveness. We evaluated the proposed structures in terms of the measures of effectiveness and determined the relative effect of each structure on each measure.

In the next step of evaluation we compared all four structures in terms of each measure of effectiveness. Of the four structures we determined the most flexible, the most supportable, the simplest, and the most cost effective. From these two-way evaluations we then chose the one most desirable structure option.

Based on the analysis, Option IV was determined to be the one preferred.

EQUIPMENT DEFICIENCIES

The characteristics of planned equipment will improve long distance links. However, concern is expressed repeatedly over the highly technical skills required to operate, maintain, and repair some items in the planned inventory.

The present communication system lacks the capability to prepare, transmit, receive, reproduce and distribute narrative messages in quantities that will exist in MAB and MAF operations. Critical improvement is necessary in narrative message preparation time. If writer to reader time is to be substantially reduced new procedures must be considered. Among those considered should be placing terminal equipment with staff sections.

Size, mobility, setup and teardown time are problems with two particular items, the Communications Central AN/TGC-37 and the Central Office Telephone System AN/TTC-38. The lift requirements of both the AN/TTC-38 System and the AN/TGC-37 defy the Marine Corps' MAGTF goal of light and fast. Each can be considered movable but certainly not mobile. The capabilities designed into these two items often far surpass that required of headquarters smaller in size than wing or FSSG. Frequently communication equipment which is smaller, lighter and more mobile is substituted for the heavier AN/TGC-37 and AN/TTC-38 System. Although less capable, the lighter gear can be housed in standard shelters and is more often preferred and used.

We took a survey of CONUS message centers which guard for wing, division, and FSSG units. The following traffic counts support an increase of narrative traffic terminal equipment, especially in wing communication squadrons. These numbers represent both incoming and outgoing messages in non-combat garrison operations. Most of the traffic counted here is narrative type messages. There are separate leased line circuits currently operating among supply centers in CONUS whose dedicated links would not be available in the event of deployment. Information was not available for these links. Communication resources would be called on to provide these links in a MAGTF setting. Combat readiness of deployed units could deteriorate as a result of delays in transmission of supply and maintenance data.

Based on this informal survey of peacetime traffic load it is already evident that one DCS entry point would be incapable of processing, transmitting and receiving the quantity of message traffic that would be generated during the combat commitment of a MAGTF. As a minimum requirement each MAGTF element, ACE, GCE, and CSSE, will need its own DCS entry capability. The survey reflects the need for additional TYC-5's or other suitable DCS entry equipment.

COMMUNICATION MESSAGE CENTER

TRAFFIC SURVEY JAN-SEPT 1982

STATION	AVERAGE MONTHLY MESSAGE COUNT	CARD	MAG TAPE	NAR
MCAS CHERPT	5,150	YES	NO	YES
MCAS BEAUFORT	7,000	NO	NO	YES
MCAF NEW RIVER	5,696	NO	NO	YES
MCAS EL TORO	28,000			
MAG-16 TUSTIN	3,440	NO	NO	YES
MCAS YUMA	9,500	YES	NO	YES
1ST DIV	11,678	YES	YES	YES
1ST FSSG	10,250	YES	YES	YES
2ND DIV	8,250	NO	NO	YES
2ND FSSG	7,559	NO	NO	YES

IMPLEMENTATION

Reorganization always possesses the potential for significant turmoil. Once the new desired goal is identified, the tendency to expedite change is natural. We believe, however, that a purposely gradual implementation is best. To reduce anxiety usually associated with change the people affected must be carefully prepared. A well planned schedule of implementation will also help to reduce turbulence generally associated with change.

A test reorganization is a highly desirable means of determining on a small scale whether or not recommended changes are workable. For the reorganization proposed here it is recommended that such a test be done within the Eighth Communication Battalion. This battalion is a logical choice since it is complete, in one geographical location and is called on regularly to support active MAGTF headquarters.

The recommended implementation plan calls for the reorganization to take place first in Eighth Communication Battalion, followed in tandem by Ninth and Seventh Communication Battalions respectively. Sixth Communication Battalion reorganization could be started upon approval of this option. Sixth Communication Battalion, given its mission of augmentation and its lack of ability to respond quickly to T/O changes, is expected to need more time to reorganize than the other three battalions. The sequence of events would be as follows:

- o From current communication battalion assets form A company and reorganize Headquarters and company C elements.
- o Form B company out of the remainder of Communication Support Company and those reductions identified within the FMF structure, (i.e. division, wing, FSSG).

If the identified reductions are approved, a minimal single MAF structure increase of six officers and eleven enlisted Marines is required.

Should two MAB communication companies be formed, MAB communication company B in each communication battalion could assume training support and/or agumentation such as communication support companies of 7th and 9th Communication Battalions. These units would be designated the MPS communication elements.

CONCLUSIONS

- The recommended structure, Option IV, provides the most effective and supportable configuration of assets to support two MAGTF headquarters.

- The T/O proposed to accompany Option IV creates a very efficient reorganization of personnel. The total additional personnel in the Communication Battalions needed over a three year period is 18 officers and 453 enlisted Marines.

- A successful Marine Corps wide implementation of the recommended structure must begin with a test reorganization. The unit chosen for the test should be Eighth Communication Battalion.

- Equipment on hand and planned, particularly the satellite equipment and the AN/UGC-74's will improve mission support. Serious mobility and maintainability shortcomings still exist with narrative message support and telephone switch equipment.

RECOMMENDATIONS

- That the proposal presented in this study as Option IV be adopted by the Marine Corps.
  - oo That the Communication Battalion T/O's be rewritten according to the suggested T/O presented here.
  - oo That the Communication Battalion T/E's be developed to support Option IV.
  - oo That POM years 1985, 1986, 1987 provide for the increase of six officers and 151 enlisted Marines to be added to one Communication Battalion per year.
  - oo That a test reorganization be implemented in Eighth Communication Battalion in fiscal year 1984.
  - oo That acquisition of communication equipment, especially that which provide reliable carrier systems and narrative message terminals be given first priority over all futuristic command and control systems.
- That a study team composed of operational communication officers and Marines with MTACCS systems development experience be chartered to determine future communication organizations and doctrine resultant from the introduction of MTACCS.

PERIPHERAL ISSUES

When Marines have the opportunity to reach anyone they believe has some influence over events, they address a multitude of problems which in their estimation warrant higher level attention. Many such concerns outside the scope of this study have surfaced in the course of our interviews. Those topics most frequently mentioned and common to many units are stated here.

1. NON-DEPLOYABLE MARINES

At every command we visited one of the foremost problems on the minds of FMF Marines was the effect on morale and readiness of having individuals who cannot be deployed assigned to deployable units. These Marines continue to be trained in MOSs vital to amphibious operations and assigned to units which deploy regularly. Their presence is an unquestionable asset for training purposes. They are among the most highly skilled and productive Marines. However, their presence in a deployable outfit degrades the readiness of the unit when it must deploy without them. Morale is understandably affected when some Marines are allowed to go and others prohibited or when some Marines are required to deploy and others not required. The presence of nondeployables also increases the frequency of deployment for those who are allowed to deploy.

2. REPRODUCTION AND DISTRIBUTION

Equipment available for communication center reproduction is inadequate. Savin reproduction machines currently being used have a very low mean time between failure (MTBF) and insufficient numbers of back up units. Repair packages were not purchased with the equipment. The Savin has no carrying case to protect it in transit to and from field employment. Other highly sophisticated equipment such as Xerox copiers may not operate properly unless contained in a sanitized van.

3. EDUCATION OF STAFF AND COMMANDING OFFICERS

A need has been expressed for the education of staff and commanding officers regarding the capabilities and limitations of their communication systems. Too many commanders have no concept of what their communication officers can or cannot do within the resources available to them. Using the FMFM 10-1 for reinforcement, commanders try to identify their requirements in terms of named nets rather than in terms of need to communicate. A basic deficiency on the parts of staff and commanding officers is their failure to perceive communications in the generic sense. Commanders and staff officers must recognize that communications is not solely dependent on having a dedicated radio or telephone on hand at all times. The commanding officer must employ his electronic assets to achieve maximum effectiveness and flexibility. Network planning should include concise answers to the following:

- Where is communication traffic being sent?
- How many communication channels are required?
- What are communication channels required to carry?
- Is communication equipment available to satisfy requirements?

- Can any channels be time shared without degradation of service, or does the nature or volume of traffic require exclusive use?

4. TRENDS

Interviews indicate battlefield communication equipment is becoming too sophisticated.

- Beginning to resemble strategic equipment.
- Need to develop simplistic equipment.
- Technical skills required demand extensive training.
- Equipment is hard to ruggedize/maintain.

BIBLIOGRAPHY

1. Booz, Allen, Hamilton, Communications Systems Requirements Study, (Bethesda, MD: June 18, 1975).

2. Congressional Budget Office, Congress of the United States, The Marine Corps in the 1980's: Prestocking Proposals, The Rapid Deployment Force and Other Issues, U.S. Government Printing Office, (Washington, D. C.: May, 1980,) 74 pages.

3. Headquarters, U. S. Marine Corps, Landing Force Integrated Communications System Architecture, (Washington, D. C.: June, 1980).

4. Headquarters, U. S. Marine Corps, Marine Tactical Command and Control Systems (MTACCS) Communication Requirements, (Washington, D. C.: 1980).

5. Headquarters, U. S. Marine Corps, Marine Tactical Command and Control Systems (MTACCS) Master Plan, (Washington, D. C.: March, 1981).

6. Lehman, John F., International Defense Review, Vol. 15, No. 5, (1982) p. 548.

7. Marine Air-Ground Intelligence System (MAGIS) Development and Operational Concepts (CG MCDEC ltr D 025/WDR:cas of 31 August 1976).

8. Naval Ocean System Center, Marine Corps Mobile Command Concept (MCC): Functional Interface Analysis, (San Diego, CA, TD345, July 1, 1980).

9. Naval Ocean Systems Center, Marine Corps Mobile Command Concept (MCC): Baleline Assumptions, (San Diego, CA, TD297, September 30, 1979).

10. Potomac General Research Group, Landing Force Communications in the Midrange, Vol I, II, (Quantico VA, December 1980).

11. Potomac General Research Group, Marine Air-Ground Task Force (MAGTF) Teleprocessing Requirements (1980-1985) Study, (Washington, D. C. April, 1980).

12. Potomac General Research Group, Integration of Navy/Marine Corps Command, Control, Communications (C-3) Systems for Amphibious Operations (1985-1995), Quantico, VA, November, 1981.

13. Tactical Communication Planning Guide (U), JCS Pub-11 (S).

14. U. S. Marine Corps, FMFM 0-1, Marine Air-Ground Task Force Doctrine, (Washington, D. C.: August 31, 1979).

15. U. S. Marine Corps, FMFM 4-1, Combat Service Support, (Washington, D. C.: September 21, 1981).

16. U. S. Marine Corps, FMFM 6-1, Marine Division, (Washington, D. C.: March 22, 1978).

17. U. S. Marine Corps, FMFM 9-2, Amphibious Vehicles, (Washington, D. C.: April 23, 1981).

18. U. S. Marine Corps FMFM 10-1, Communications, (Washington, D. C.: October 9, 1980).

BIBLIOGRAPHY (Cont'd)

19. U. S. Marine Corps, Landing Force Communication Reference Data, LFTCPAC, (San Diego, CA: May 1981).

20. U. S. Army, FM 11-50, Combat Communications Within the Division, (Washington, D. C.).

21. U. S. Army, FM 24-1, Combat Communications, (Washington, D. C.).

22. U. S. Marine Corps, LFM 01, Doctrine for Amphibious Operations, (Washington, D. C., January, 1977).

23. The below listed Marines participated in conferences held at Quantico, VA on the dates indicated:

Major Gary BRADLEY, CMC (Code CCT) (June, September 1982)

Major Dennis COURTNAGE, Asst. CEO, 2nd MARDIV (September 1982)

Major Tom DEAN, CO, Comm Company, 2nd MARDIV (June, July 1982)

LtCol B. D. LYNCH, CO, 8th Comm Bn (June, July and September 1982)

LtCol John MOORE, CEO, 4th MAB (June 1982)

Major Robert MUTCHLER, COS (June, September 1982)

Colonel Bud PAFFORD, CEO, FMFLANT (June 1982)

Major Larry PERGERSON, COS (June, September 1982)

Major Norman STAHL, Asst. CEO, 2nd MAW (July, September 1982)

LtCol John WHALEN, CEO, MCB, Camp Pendleton (September 1982)

24. Members of the following commands participated in conferences and working groups sponsored by this study team:

MARDIV	FSSG
First	First
Second	Second
Fourth	
MAW	LFTCPAC
Second	MCDEC
Third	FMFLANT
Fourth	HQMC

25. The following Headquarters Marine Corps Divisions were represented on the Study Advisory Committee:

DC/S, Plans, Policies, and Operations

DC/S, Installation and Logistics

DC/S, Manpower

BIBLIOGRAPHY (Cont'd)

DC/S, Aviation

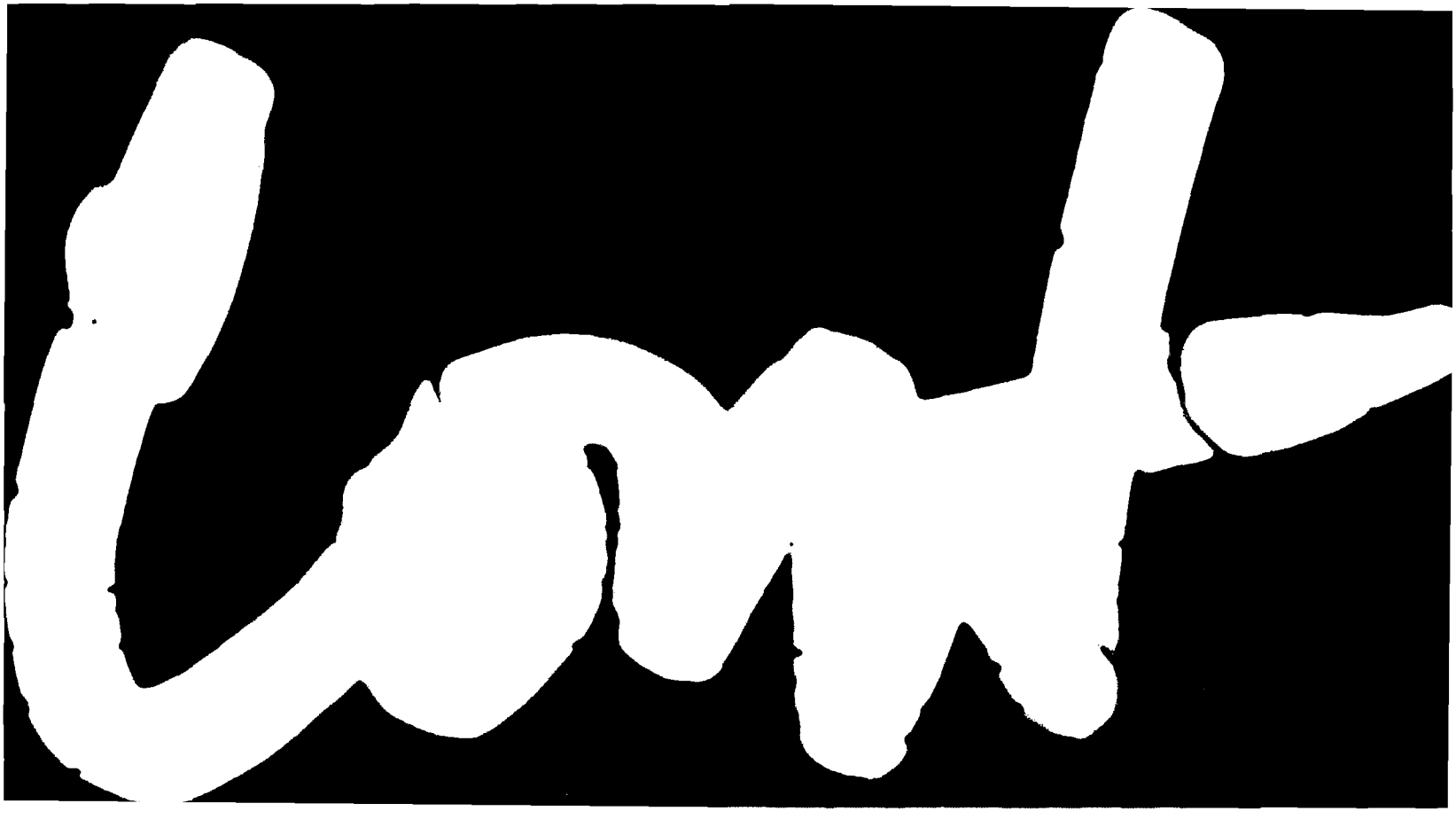
DC/S, Research, Development and Studies

DC/S, Requirements and Programs

DC/S, Reserve Affairs

DC/S, Training

Director, C^4 Systems Division



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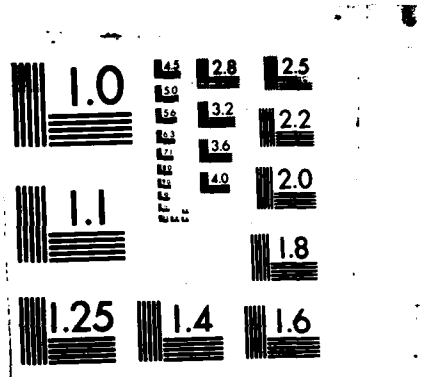

SUPPLEMENTAR

INFORMATION

DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
WASHINGTON, D C 20380

IN REPLY REFER TO:
RDS/CCTR-63
SCN 75-82-02

02 JAN 198

From: Commandant of the Marine Corps

Subj: COMMUNICATION FORCE STRUCTURE STUDY

AD-A153966

1. The study objectives were to examine and, if necessary, redefine the mission and structure for the communication battalions, division, and force service support group communications companies, and the wing communication squadrons necessary to meet Marine Corps requirements for the time period 1984-1993.

2. The study objectives relating to communication support for MAGTF headquarters, considered our most critical deficiency today, have been met. The study provides a foundation for further mission and structure evaluation to analyze the internal communication requirements for the subordinate elements of the MAF. The final report is recommended for distribution.

3. The recommendations of the study are deferred.

4. A copy of this letter will be affixed inside the front cover of each copy of the subject study report prior to its distribution.

RAY[illegible]
Brigadier General, U.S. Marine Corps
Deputy Chief of [illegible]

Distribution:
DTIC (2)
CNA (2)
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